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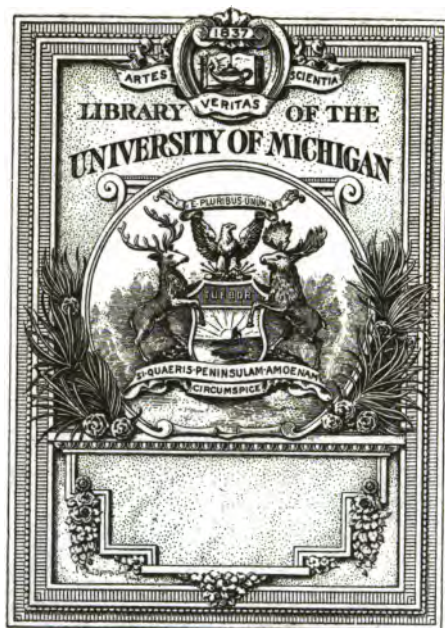
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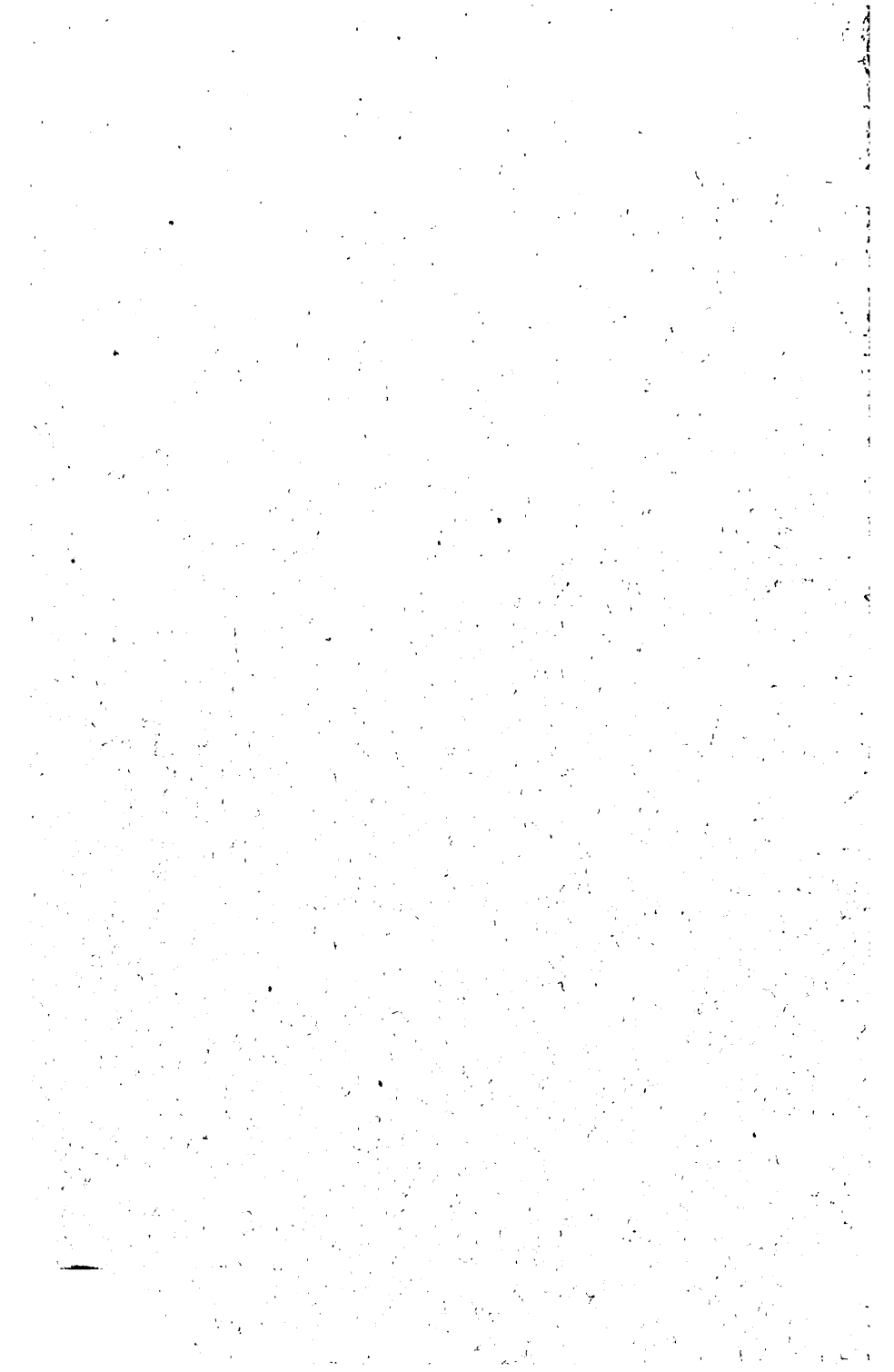
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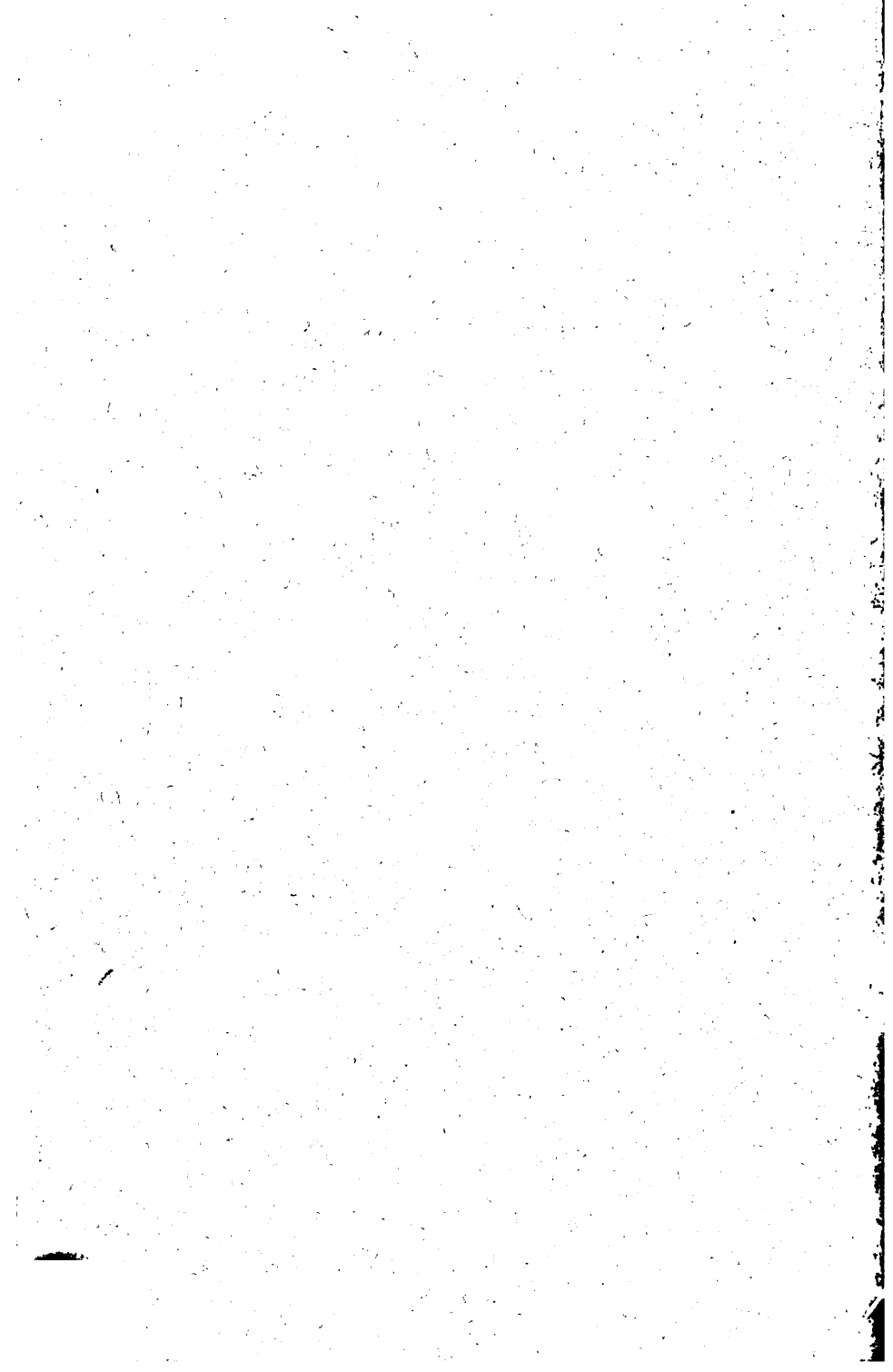
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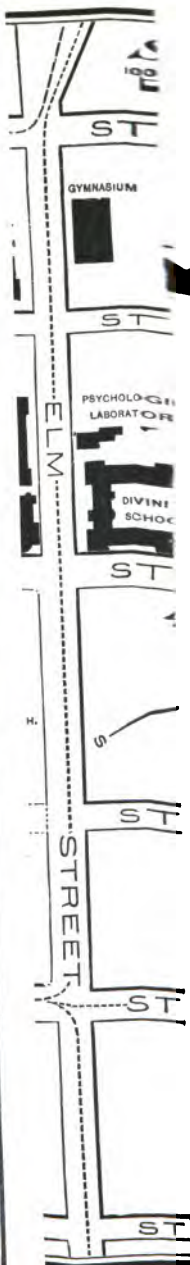
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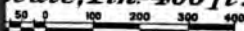






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## ABBREVIATIONS

A., Absent on leave; B., Sheffield Biological Laboratory; C., Old Chapel; D., Durfee Hall; E. D., East Divinity Hall; F., Farnam Hall; L., Lawrance Hall; LYC., Lyceum; N., North College; N. M., North Middle College; N. S. H., North Sheffield Hall; P., Peabody Museum; S., South College; S. H., Sheffield Hall; S. M., South Middle College; TR., Treasury Building; W., Welch Hall; W. D., West Divinity Hall; WINCH., Winchester Hall.

Upon the College Square, the rooms numbered from 1 to 32 are in South College; from 33 to 64 in South Middle College; from 65 to 96 in North Middle College; from 97 to 128 in North College; from 129 to 177 in Farnam Hall; from 178 to 185 in the Lyceum; from 186 to 200 in the Old Chapel; from 201 to 240 in Durfee Hall; from 241 to 282 in Lawrance Hall; from 283 to 330 in Welch Hall.

The rooms in East Divinity Hall are numbered from 1 to 54; in West Divinity Hall from 55 to 124.

The rooms in Sheffield Hall are numbered from 1 to 21; in North Sheffield Hall from 25 to 58; in the Sheffield Biological Laboratory from 60 to 79; in Winchester Hall, from 100 to 135.

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THE TREASURER'S OFFICE, No. 5 Treasury Building, is open from 9 A. M. to 3 P. M., every week-day during term-time, and from 10 A. M. to 1 P. M. during vacations.

THE SECRETARY'S office is in the Library, which is open every week-day during term-time, from 9.30 A. M. to 5 P. M.

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A list of the Graduates of the University is published triennially,—the last edition in June, 1892; a copy will be supplied to any graduate desiring it, on receipt of the postage (nine cents); copies may be obtained by other persons at cost price, fifty cents, with postage.

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WILBUR F. DAY

# CALENDAR

---

## 1892

|          |           |                                       |
|----------|-----------|---------------------------------------|
| 29 Sept. | Thursday  | FIRST TERM begins.                    |
| 1 Oct.   | Saturday  | School of the Fine Arts, term begins. |
| 6 Oct.   | Thursday  | First Term, Medical School, begins.   |
| 21 Dec.  | Wednesday | FIRST TERM ends.                      |

## Winter Vacation.

## 1893

|          |           |   |
|----------|-----------|---|
| 10 Jan.  | Tuesday   | SECOND TERM begins.                             |
| 12 Jan.  | Thursday  | Second Term, Medical School, begins.            |
| 23 March | Thursday  | Junior Exhibition.                              |
| 29 March | Wednesday | SPRING RECESS (in Collège) begins.              |
| 5 April  | Wednesday | SPRING RECESS ends.                             |
| 13 April | Thursday  | Spring Term, Law School, begins.                |
| 1 May    | Monday    | John A. Porter Prize Essays due.                |
| 6 May    | Saturday  | Berkeley Scholarship Examination.               |
| 17 May   | Wednesday | Anniversary of the Divinity School.             |
| 22 May   | Monday    | Woolsey Scholarship Examination begins.         |
| 22 May   | Monday    | Winthrop Prize Examination.                     |
| 31 May   | Wednesday | School of the Fine Arts, term ends.             |
| 25 June  | Sunday    | Baccalaureate Sermon.                           |
| 26 June  | Monday    | Presentation for Academical Degrees.            |
| 26 June  | Monday    | Anniversary of the Sheffield Scientific School. |
| 27 June  | Tuesday   | Anniversary Meeting of the Alumni.              |
| 27 June  | Tuesday   | Anniversary of the Medical School.              |
| 27 June  | Tuesday   | Anniversary of the Law School.                  |
| 28 June  | Wednesday | COMMENCEMENT.                                   |
| 29 June  | Thursday  | Examinations for admission begin.               |

## Summer Vacation.

|          |           |                                       |
|----------|-----------|---------------------------------------|
| 26 Sept. | Tuesday   | Examinations for admission begin.     |
| 28 Sept. | Thursday  | FIRST TERM begins.                    |
| 2 Oct.   | Monday    | School of the Fine Arts, term begins. |
| 5 Oct.   | Thursday  | First Term, Medical School, begins.   |
| 20 Dec.  | Wednesday | FIRST TERM ends.                      |



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*Instructor in French* 151 Bradley st.
- HON. JOHN H. PERRY, LL.B., M.A.  
*Instructor in Evidence* Southport
- THOMAS W. MATHER, D.E.  
*Instructor in Mechanical Engineering* 19 Warren pl.
- THOMAS THACHER, LL.B., M.A.  
*Lecturer on Corporate Trusts* New York City
- SAMUEL S. CURRY, B.D., PH.D.  
*Instructor in Elocution in the Divinity School* 12 E. D.
- HARRISON W. LINDSLEY, C.E.  
*Instructor in Perspective* (Art School) 15 Elm st.
- JAMES M. TOWNSEND, JR., LL.B.  
*Lecturer on Transfer of Monetary Securities* New York City
- 
- Instructor in Architecture*
- GEORGE M. SHARP, LL.B., M.A.,  
*Lecturer on Insurance* Baltimore, Md.
- C. LARUE MUNSON, LL.B., M.A.  
*Lecturer on the Beginnings of Legal Practice* Williamsport, Pa.
- JOHN K. BEACH, B.A., LL.B.  
*Instructor in Sales* (179 Church st.) 450 Temple st.
- EDWIN B. GAGER, B.A.  
*Instructor in Mortgages* Birmingham
- HENRY FLEISCHNER, M.D.  
*Lecturer on Dermatology and Clinical Medicine* 928 Grand av.
- ROGER FOSTER, LL.B., M.A.  
*Lecturer on Federal Jurisprudence* New York City
- Rev. ROBERT F. HORTON, M.A.  
*Lyman Beecher Lecturer on Preaching* Hampstead, England



- Capt. JAMES S. PETTIT, U. S. A.  
*Professor of Military Science and Tactics, detailed  
 by the U. S. Government* 430 Temple st.
- SAMUEL E. BARNEY, C.E.  
*Instructor in Mathematics and Civil Engineering* 346 Whitney av.
- WILLIAM J. COMSTOCK, PH.B.  
*Instructor in Organic Chemistry* 43 Trumbull st.
- JAY W. SEAVER, M.D.  
*Associate Director of the Gymnasium (Gymnasium)* 233 York st.
- FRANK H. WHEELER, M.D.  
*Assistant in Pathology* 188 Crown st.
- HENRY C. WHITE, M.L.  
*Lecturer on Political Science (828 Chapel st.)* 45 Trumbull st.
- CHARLES E. PARK, M.D.  
*Assistant in the Surgical Clinic* 132 Olive st.
- HOWARD H. KNAPP, B.A., LL.B.  
*Lecturer on Connecticut Practice* Bridgeport
- LOUIS V. PIRSSON, PH.B.  
*Instructor in Lithology* (2 P.) 14 S. H.
- CHARLES J. FOOTE, M.D.  
*Demonstrator of Bacteriology and Assistant in the  
 Surgical Clinic* 305 Howard av.
- FREDERIC E. BEACH, PH.B.  
*Assistant in Physics* 44 Lyon st.
- WILLIAM G. ANDERSON, M.D.  
*Instructor in Gymnastics and Associate Director of the  
 Gymnasium (Gymnasium)* 99 Howe st
- HENRY L. SWAIN, M.D.  
*Lecturer on Diseases of the Throat and Ear* 200 York st.
- JOHN B. HATCHER, PH.B.  
*Assistant in Geology* 9 P.
- OLAUS DAHL, PH.D.  
*Instructor in Swedish and Danish* 1010 Chapel st.
- ARTHUR B. ADAMS, PH.B.  
*Assistant in Chemistry* 26 Academy st.
- REV. FRITZ JACOBSON, PH.D.  
*Lecturer on the History of Philosophy* 149 St. John st.
- JOSEPH H. TOWNSEND, M.D.  
*Demonstrator of Obstetrics* 93 Howe st.

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| FREDERICK L. CHASE, PH.D.   |                   |                 |
| <i>Assistant Astronomer in the Observatory</i>                    |                   | Observatory     |
| JOHN WHITMORE, PH.D.  |                   |                 |
| <i>Instructor in Physics</i>                                      |                   | 147 Bradley st. |
| ALFRED J. WAKEMAN, PH.B.  |                   |                 |
| <i>Instructor in Analytical Chemistry</i>                         |                   | 72 Clark st.    |
| WILLIAM A. SETCHELL, PH.D.  |                   |                 |
| <i>Instructor in Biology</i>                                      |                   | 2 Hillhouse av. |
| ROBERT N. CORWIN, B.A.  |                   |                 |
| <i>Instructor in German</i>                                       |                   | 333 Crown st.   |
| EDWARD G. BUCKLAND, B.A., LL.B.                                   |                   |                 |
| <i>Instructor in Contracts</i>                                    | (153 Church st.)  | 419 Temple st.  |
| GEORGE S. WOODWARD, M.D.  |                   |                 |
| <i>Assistant in the Medical Clinic</i>                            |                   | 236 Crown st.   |
| PERCY F. SMITH, PH.D.   |                   |                 |
| <i>Instructor in Mathematics</i>                                  | (46 N. S. H.)     | 56 Whalley av.  |
| EDWIN H. LOCKWOOD, PH.B.  |                   |                 |
| <i>Instructor in Drawing and Mechanism</i>                        | (57 N. S. H.)     | 145 College st. |
| HANNS OERTEL, PH.D.   |                   |                 |
| <i>Instructor in German</i>                                       |                   | 31 York sq.     |
| B. AUSTIN CHENEY, M.D.  |                   |                 |
| <i>Assistant in Obstetrics and Diseases of Women and Children</i> |                   | 40 Elm st.      |
| CHARLES A. TUTTLE, M.D.   |                   |                 |
| <i>Assistant in the Surgical Clinic</i>                           |                   | 129 Whalley av. |
| PHILIP E. BROWNING, PH.D.   |                   |                 |
| <i>Assistant in Chemistry</i>                                     | (Kent Laboratory) | 70 N. M.        |
| ARTHUR C. ALEXANDER, PH.B.  |                   |                 |
| <i>Laboratory Assistant in Electrical Engineering</i>             | (57 N. S. H.)     | 145 College st. |
| LANGDON FROTHINGHAM, M.D.V.                                       |                   |                 |
| <i>Assistant in Veterinary Science and Bacteriology</i>           |                   | 71 B.           |
| HERBERT A. SMITH, B.A.  |                   |                 |
| <i>Instructor in English</i>                                      |                   | 101 W.          |
| EDWARD F. BUCHNER, B.A.   |                   |                 |
| <i>Lecturer on Pedagogy</i>                                       |                   | 54 Park st.     |
| WALTER I. LOWE, B.A.  |                   |                 |
| <i>Instructor in History</i>                                      |                   | 22 Whalley av.  |
| FRANK R. RICH, PH.B.  |                   |                 |
| <i>Assistant in German</i>  |                   | 2 Audubon st.   |

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| ERWIN W. RUNKLE, B.A.<br><i>Lecturer on the History of Philosophy</i>                      | 113 Dwight st.          |
| ALEXANDER W. EVANS, M.D.<br><i>Assistant in Chemistry</i>                                  | 12 High st.             |
| JOHN C. TRACY, C.E.<br><i>Assistant in Civil Engineering</i>                               | 4 Audubon st.           |
| CHARLES M. WILLIAMS, B.A., PH.B.<br><i>Laboratory Assistant in Physiological Chemistry</i> | 2 Hillhouse av.         |
| ROBERT O. MOODY, B.S.<br><i>Instructor in Histology</i>                                    | E. Grand av.            |
| GEORGE P. STARKWEATHER, PH.B.<br><i>Assistant in Drawing and Applied Mechanics</i>         | N. H. Hospital          |
| JOSEPH BOWDEN, JR., B.A.<br><i>Assistant in Mathematics</i>                                | 294 Elm st.             |
| JOHN A. HOOBER, M.L.<br><i>Instructor of Quiz Clubs</i>                                    | 63 Prospect st.         |
| LAFAYETTE B. MENDEL, B.A.<br><i>Laboratory Assistant in Physiological Chemistry</i>        | 22 Trumbull st.         |
| LEONARD W. BACON, JR., M.D.<br><i>Assistant in the Medical Clinic</i>                      | 2 Grove st.             |
| CHARLES J. BARTLETT, B.A.<br><i>Laboratory Assistant in Physiological Chemistry</i>        | 120 Dwight st.          |
| GEORGE F. CAMPBELL, PH.B.<br><i>Laboratory Assistant in Chemistry</i>                      | 49 Dixwell av.          |
| WESLEY R. COE, PH.B.<br><i>Laboratory Assistant in Biology</i>                             | 131 Howe st.            |
| ARTHUR L. DAY, B.A.<br><i>Assistant in Physics in the Sloane Laboratory</i>                | 25 High st.             |
| PERCY T. WALDEN, PH.B.<br><i>Laboratory Assistant in Analytical Chemistry</i>              | 123 Park st.            |
| HENRY S. ANDERSON,<br><i>Assistant Instructor in Gymnastics</i>                            | (Gymnasium) 99 Howe st. |
| WARREN A. SPALDING,<br><i>Demonstrator of Pharmacy</i>                                     | 9 High st.              |
| G. ALBERT THOMPSON,<br><i>Clerk and Librarian of the Art School</i>                        | 79 Clinton av.          |
| ALFRED W. CARTER,<br><i>Assistant Librarian of the Law School</i>                          | 383 George st.          |

## OTHER OFFICERS

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| EDWARD J. F. WERDER, LL.B., <i>Assistant in the Library</i>  | (Library)      | 29 Home pl.     |
| FRANK E. HOTCHKISS, <i>Superintendent of Grounds and Buildings</i>   |                | 90 High st.     |
| WILLABE HASKELL, PH.D., <i>Superintendent of the Reading Room</i>  | (Reading Room) | 96 Dwight st.   |
| ANNIE E. HUTCHINS, <i>Assistant in the Library</i>   | (Library)      | 29 Home pl.     |
| J. PRESTON STRONG, <i>Clerk in the Treasurer's Office</i>  | (5 TR.)        | 522 Howard av.  |
| GEORGE H. BUTLER, <i>Clerk in the Treasurer's Office</i>   | (5 TR.)        | 98 Howe st.     |
| WILLIAM E. ROWLAND, <i>Clerk in the Treasurer's Office</i>   | (5 TR.)        | 114 Greene st.  |
| HENRY R. GRUENER, <i>Assistant in the Library</i>  | (Library)      | 39 Whiting st.  |
| HENRY T. FOWLER, B.A., <i>Superintendent of Dwight Hall, and Secretary of the Yale Young Men's Christian Association</i> |                | Dwight Hall     |
| VERTNER KENERSON, B.A., <i>Proctor, and Steward of the Dining Hall</i>   |                | 1018 Chapel st. |

## GRADUATE FELLOWS AND SCHOLARS

|  |                  |
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| MARY AUGUSTA SCOTT, M.A., <i>Fellow in the Graduate Department</i>       | 125 High st.     |
| THOMAS K. UKITA, <i>Scholar in the Graduate Department</i>               | 438 Elm st.      |
| CHARLOTTE C. BARNUM, B.A., <i>Scholar in the Graduate Department</i>     | 144 Humphrey st. |
| EDWIN A. WARFIELD, B.A., B.D., <i>Scholar in the Graduate Department</i> | 94 W. D.         |
| WILLIAM S. EBERSOLE, M.A., <i>Scholar in the Graduate Department</i>     | 22 Whalley av.   |
| JOHN M. MOORE, <i>Scholar in the Graduate Department</i>                 | 51 Garden st.    |
| EDWARD F. BUCHNER, B.A., <i>Scholar in the Graduate Department</i>       | 54 Park st.      |
| BENJAMIN F. COKELY, B.A., <i>Scholar in the Graduate Department</i>      | 84 W. D.         |

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| J. ALLEN GILBERT, B.A., <i>Scholar in the Graduate Department</i>                               | 107 Dwight st.  |
| MARY GRAHAM, B.A., <i>Fellow in the Graduate Department</i>                                     | 335 Orange st.  |
| CHARLES E. OZANNE, B.A., <i>Fellow in the Divinity School</i>                                   | 109 W. D.       |
| CHARLES B. BLISS, B.A., <i>Larned Scholar and Berkeley Scholar in the Academical Department</i> | 22 Whalley av.  |
| ARTHUR W. COLTON, B.A., <i>Foote Scholar in the Academical Department</i>                       | 116 W. D.       |
| WALTER I. LOWE, B.A., <i>Woolsey Scholar in the Academical Department</i>                       | 22 Whalley av.  |
| THOMAS J. LLOYD, B.A., <i>Scholar in the Graduate Department</i>                                | 22 Whalley av.  |
| CURTIS C. BUSHNELL, B.A., <i>Bristed Scholar and Clark Scholar in the Academical Department</i> | 19 Perkins st.  |
| JOSEPH BOWDEN, JR., B.A., <i>Woolsey Scholar in the Academical Department</i>                   | 294 Elm st.     |
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| LAFAYETTE B. MENDEL, B.A., <i>Larned Scholar in the Academical Department</i>                   | 22 Trumbull st. |
| WILLIAM T. BARTLEY, B.A., <i>Soldiers' Memorial Fellow in the Academical Department</i>         | 37 Lynwood st.  |
| FRANCIS T. BROWN, B.A., <i>Foote Scholar in the Academical Department</i>                       | 116 College st. |
| LUTHER H. TUCKER, JR., B.A., <i>Foote Scholar in the Academical Department</i>                  | 1161 Chapel st. |
| ELLEN C. ABBOTT, B.A., <i>Scholar in the Graduate Department</i>                                | West Haven      |
| WILBUR L. ANDERSON, B.A., <i>Scholar in the Graduate Department</i>                             | 317 George st.  |
| FRANK ARMFIELD, B.A., <i>Scholar in the Graduate Department</i>                                 | 297 George st.  |
| ARTHUR S. BRACKETT, B.A., <i>Scholar in the Graduate Department</i>                             | 120 Dwight st.  |
| OTIS G. BUNNELL, PH.B., <i>Scholar in the Graduate Department</i>                               | 58 Lyon st.     |
| ARTHUR L. DAY, B.A., <i>John Sloane Fellow in the Academical Department</i>                     | 25 High st.     |
| GEORGE H. GIRTY, B.A., <i>Larned Scholar in the Academical Department</i>                       | 559 Howard av.  |

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| FERDINAND A. HÄUSLEIN, B.A., <i>Scholar in the Graduate Department</i>          | 123 York st.   |
| RUPERT HUGHES, B.A., <i>Scholar in the Graduate Department</i>                  | 142 Dwight st. |
| HENRY D. HUNT, PH.B., <i>Scholar in the Graduate Department</i>                 | 88 Clark st.   |
| JAMES W. D. INGERSOLL, B.A., <i>Douglas Fellow in the Academical Department</i> | 90 Park st.    |
| JAMES H. M. KNOX, JR., B.A., <i>Scholar in the Graduate Department</i>          | 82 Wall st.    |
| JOHN I. PHINNEY, B.A., <i>Silliman Fellow in the Academical Department</i>      | 76 Howe st.    |
| IDA M. SCHOLTENFELS, B.A., <i>Scholar in the Graduate Department</i>            | 8 Prospect pl. |
| CHARLES A. SCHUMAKER, B.A., <i>Clark Scholar in the Academical Department</i>   | 126 High st.   |
| CLARENCE C. WILSON, B.A., <i>Scholar in the Graduate Department</i>             | 117 Elm st.    |

## GOVERNMENT OF THE UNIVERSITY

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The legal designation of the Corporation is "THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN," or "YALE UNIVERSITY;" the powers of this body have been granted and confirmed in the following order.

THE COLLEGIATE SCHOOL OF CONNECTICUT, subsequently named YALE COLLEGE, and now called YALE UNIVERSITY, was founded in the summer of 1701 by the combined action of a few of the ministers in Connecticut, who obtained in October of that year a Charter from the Colony Legislature, which runs as follows :—

### AN ACT FOR LIBERTY TO ERECT A COLLEGIATE SCHOOL.

**W**HEREAS several well disposed, and Publick spirited Persons of their sincere regard to & Zeal for upholding & Propagating of the Christian Protestant Religion by a succession of Learned & Orthodox men have expressed by Petition their earnest desires that full Liberty and Priveledge be granted unto certain Undertakers for the founding, suitably endowing & ordering a Collegiate School within his Maj<sup>ties</sup> Colony of Connecticut wherin Youth may be instructed in the Arts & Sciences who thorough the blessing of Almighty God may be fitted for Publick employment both in Church & Civil State. To the intent therefore that all due incouragement be Given to such Pious Resolutions and that so necessary & Religious an undertakeing may be sett forward, supported and well managed :—

BE IT ENACTED by the Govern<sup>r</sup> & Company of the s<sup>d</sup> Colony of Connecticut in General Court now Assembled, And it is enacted & ordained by the Authority of the same that there be & hereby is full Liberty, Right and Priveledge Granted unto the Reverend M<sup>r</sup>. James Noyes of Stonnington, M<sup>r</sup>. Israel Chauncey of Stratford, M<sup>r</sup>. Thomas Buckingham of Saybrook, M<sup>r</sup>. Abraham Pierson of Kennelworth, M<sup>r</sup>. Samuel Mather of Windsor, M<sup>r</sup>. Samuel Andrew of Milford, M<sup>r</sup>. Timothy Woodbridge of Hartford, M<sup>r</sup>. James Pierpont of New Haven, M<sup>r</sup>. Noadiah Russel of Middletown, M<sup>r</sup>. Joseph Webb of Fairfield, being Rev<sup>rd</sup> Ministers of the Gospel & inhabitants within y<sup>e</sup> s<sup>d</sup> Colony,

proposed to stand as Trustees, Partners or Undertakers for the s<sup>d</sup> School, to them and their successors, To ERECT, form, direct, order, establish, improve and att all times in all suitable wayes for the future to encourage the s<sup>d</sup> School in such convenient place or Places, & in such form & manner & under such order & Rules as to them shall seem meet & most conducive to the afores<sup>d</sup> end thereof, so as such Rules or Orders be not repugnant to the Laws of the Civil Govern<sup>t</sup>, as also to employ the moneys or any other estate which shall be Granted by this Court or otherwise Contributed to that use according to their discretion for the benefit of the s<sup>d</sup> Collegiate School from time to time & att all times henceforward.

And be it further ENACTED by the Authority afores<sup>d</sup> that the before named Trustees, Partners or Undertakers together with such others as they shall associate to themselves (not exceeding the number of Eleven, or att any time being less than Seven, Provided also that Persons nominated or associated from time to time to fill up s<sup>d</sup> number be ministers of the gospel inhabiting within this Colony & above the Age of forty years) or the major Part of them, the s<sup>d</sup> M<sup>r</sup>. James Noyes, [etc.] undertakers, & of such Persons so chosen & associated as aboves<sup>d</sup> att any time hereafter, HAVE and shall have henceforward the oversight, full & compleat Right, Liberty, power & Priveledge to furnish, direct, manage, order, improve & encourage from time to time & in all times hereafter the s<sup>d</sup> Collegiate School so Erected & formed by them in such ways, orders & manner & by such Persons, Rector or Master and officers appointed by them, as shall according to their best discretion be most conducive to attaine the afores<sup>d</sup> mentioned end thereof. . . . .

It is also further Enacted by the Authority afores<sup>d</sup> that the s<sup>d</sup> Undertakers & Partners & their successors be & hereby are further empowered to have, accept, acquire, purchase or otherwise lawfully enter upon Any Lands, Tenements & Hereditam<sup>ts</sup> to the use of the s<sup>d</sup> School, not exceeding the value of five hundred Pounds p<sup>r</sup> Ann<sup>o</sup>, & any Goods, Chattels, Sum or Sums of money whatsoever as have heretofore already been Granted, bestowed, bequeathed or given, or as from time to time shall be freely given, bequeathed, devised or settled by any Person or Persons whatsoever upon & to & for the use of y<sup>e</sup> s<sup>d</sup> School towards the founding, erecting or endowing the same, & to sue for, Recover & receiv all such Gifts, Legacies, bequests, annuities, Rents, issues & profits arising therefrom & to employ the same accordingly, & out of y<sup>e</sup> estate, Revenues, Rents, profits, incoms accruing & belonging to s<sup>d</sup> School to support & pay as the s<sup>d</sup> Undertakers shall agree & see cause, the s<sup>d</sup> Rector or Master, Tutors, Ushers or other officers their Respective annual Salaries or Allowances. As also for the encouragem<sup>t</sup> of the Students to grant degrees or Licences as they or those deputed by them shall see cause to order & appoint.



Under this Charter the Collegiate School was begun in November, 1701, at Saybrook, where it continued until its removal to New Haven, in October, 1716. In September, 1718, the name of YALE COLLEGE was given by the Trustees to the School, in honor of the benefactions of ELIHU YALE, of London, lately Governor of the East India Company's settlement at Madras.

In 1723 an "ACT IN EXPLANATION OF AND ADDITION TO THE ACT FOR ERECTING A COLLEGIATE SCHOOL" was passed by the General Assembly, with the following provisions:—

WHEREAS Pursuant to the Powers and Priviledges granted to Certain Trustees for Erecting a Collegiate School in this Colony Entituled an Act for a Collegiate School, the Said Trustees have Erected the said School in the Town of New-Haven which School is now known by the Name of Yale Colledge; And Whereas it appears to this Assembly that an Explanation and Enlargement of the powers and priviledges granted by Said Act is Necessary for the Carrying on the Affairs of the Said Colledge, for want of which it has Laboured under great difficulties very much to the prevention of that Order and good Education which is to be desired there :

Bee it therefore Enacted by the Governour, Council and Representatives in Generall Court assembled and by the Authority of the Same that the Said Act which provides that the Number of the Said Trustees be not under Seven nor above Eleven is not to be Understood or Taken so as to be restrictive of the power of the Said Trustees Never to Choose any person to be a Trustee, when there is of Such persons as have been Chosen and Acted as Trustees Eleven persons Living in the Colony or Elsewhere, but that in Case any person so Chosen be by Providence Incapacitated from attending that Service or shall himself decline the Same thro' the Necessity of his own Affairs or for any other such Reason as he shall Judge requisite, the Trustees in any of their Meetings Lawfully Called may be Understood to have and it is hereby Enacted and declared that they shall be Taken to have full power by the Majority of Such Meeting to proceed to the Choice of Another Trustee in the Room of any such person. And it is hereby further declared and Enacted to be the True Intent and Meaning of the Act afores<sup>d</sup> that the said Trustees shall be Impowered and they are hereby declared to have power to Meet Together for Considering, Advising about and Resolving upon all Matters belonging to the Trust of the Said Colledge committed unto them as afores<sup>d</sup> and to Agree and Conclude, Order and determine Concerning them by the Majority of the

Said Meeting, and by the same Majority to Choose and Appoint a Clerk who shall, in a fair book prepared for that End, Register and Carefully preserve the Acts of all such Meetings.

And WHEREAS it has been doubted what Number of the Said Trustees may be Lookt upon as a Sufficient or full Meeting, Inasmuch as there is not in the afores<sup>d</sup> Act any Express mention made of any Meeting of the said Trustees ; It is therefore to prevent all Scruple of that kind for the future hereby provided and declared that due Notice being given to the Trustees by Consent of any three of them of a Meeting of the Trustees desired at any Time or place, any Seven or more of the Trustees present at such Time and place shall be Esteemed a full Meeting. And it is hereby declared and Enacted that in all such Meetings, so Called, or Otherwise as the said Trustees in any such Meeting shall agree, all affairs under the Care of the said Trustees shall be determined by the majority of such Meeting.

And WHEREAS it has been found Inconvenient that in the Election of Persons to be Trustees, the Trustees Election by the afores<sup>d</sup> Act should be Limited and restrained so as that the Person who shall be Chosen must Necessarily be fourty Years of age ; It is hereby declared and Enacted that for the future the said Trustees in any Election of a person into that Trust shall not be Esteemed or held Obliged by said Act to Choose such a person as shall be above fourty Years of Age, but may Choose such a person otherwise Qualified According to said Act, Provided he is thirty Years of Age. And it is further hereby Allowed, Enacted, Granted and Provided that whosoever shall be Chosen and made a Rector of the said Colledge shall by Virtue thereof become a Trustee of the same and be so Esteemed and Taken during his Continuance in the said Rectorship.

In 1745 a thoroughly revised Charter was granted by the Assembly ; the provisions of permanent interest are as follows :—

*An ACT for the more full and complete Establishment of YALE COLLEGE in NEW HAVEN, and for enlarging the Powers and Privileges thereof.*

WHEREAS upon the Petition of several well-disposed and public-spirited Persons expressing their desire that full Liberty and Privilege might be granted unto Certain Undertakers for the founding, suitably endowing and ordering a *Collegiate School*, within this Colony, wherein Youth might be instructed in the Arts and Sciences, the Governor and Company of the said Colony in General Court assembled at *New Haven*, on the Ninth Day of October, in the Year of our Lord

1701, Granted unto the Rev'd Messrs. *James Noyes* [etc.], who were proposed to stand as Trustees, Partners or Undertakers for the Society, and to their Successors, full Liberty, Right and Privilege to erect, form, direct, order, establish, improve, and at all Times in all suitable Ways to encourage the said School in some convenient Place in this Colony, and granted sundry Powers and Privileges for the attaining the End aforesaid ;

*And Whereas* the said Trustees, Partners or Undertakers in pursuance of the aforesaid Grant, Liberty and License, founded a *Collegiate School* at *New Haven*, known by the Name of YALE COLLEGE, which has received the favorable Benefactions of many Liberal and piously disposed Persons, and under the Blessing of Almighty God has trained up many worthy Persons for the Service of God in the State as well as in the Church ;

*And Whereas* the General Court of this Colony assembled at *New Haven*, the Tenth Day of October, in the Year of our Lord 1723, did explain and enlarge the aforesaid Powers and Privileges granted to the aforesaid Partners, Trustees or Undertakers and their Successors, for the Purpose aforesaid ; as by the respective Acts, reference thereto being had, more fully and at large may appear ;

*And Whereas* the Rev'd Messrs. *Thomas Clap*, *Samuel Whitman*, *Jared Eliot*, *Ebenezer Williams*, *Jonathan Marsh*, *Samuel Cooke*, *Samuel Whittelsey*, *Joseph Noyes*, *Anthony Stoddard*, *Benjamin Lord*, and *Daniel Wadsworth*, the present Trustees, Partners and Undertakers of the said School, and Successors of those beforementioned, have petitioned, that the said School, with all the Rights, Powers, Privileges and Interests thereof, may be confirmed, and that such other additional Powers and Privileges may be granted as shall be necessary for the Ordering and Managing the said School in the most advantageous and beneficial Manner for the promoting all good Literature in the present and succeeding Generations :

Therefore,

THE GOVERNOR and COMPANY of his Majesty's said English Colony of *Connecticut* in General Court assembled, this Ninth Day of *May*, in the Year of our Lord 1745, enact, ordain, and declare, and by these Presents it is enacted, ordained and declared—

That the said *Thomas Clap* [etc.], shall be an *Incorporate Society* or *Body Corporate and Politic*, and shall hereafter be called and known by the name of THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN, and that by the same Name they and their Successors shall and may have perpetual Succession, and shall and may be Persons in the Law capable to plead and be impleaded, defend and be defended, and answer and be answered unto ; and also to have, take, possess, acquire, purchase or otherwise receive Lands, Tenements, Hereditaments, Goods, Chattels, or other Estates, and the same Lands, Tenements,

Hereditaments, Goods, Chattels, or other Estates to grant, demise, lease, use, manage or improve for the Good and benefit of the said *College*, according to the Tenor of the Donation, and their Discretion.

That all Gifts, Grants, Bequests, and Donations of Lands, Tenements, or Hereditaments, of Goods and Chattels heretofore made to or for the Use, Benefit and Advantage of the *Collegiate School* aforesaid, whether the same be expressed to be made to the President or Rector, and to the rest of the Incorporate Society of *Yale College*, or to the Trustees or Undertakers of the *Collegiate School* in *New Haven*, or to the Trustees by any other Name, Style or Title whatsoever, whereby it may be clearly known and understood that the true Intent and Design of such Gifts, Grants, Bequests and Donations, was to or for the Use, Benefit and Advantage of the Collegiate School aforesaid, and to be under the Care and Disposal of the Governors thereof, shall be confirmed, and the same hereby are confirmed, and shall be and remain to, and be vested in the President and Fellows of the *College* aforesaid, and their Successors, as to the true and lawful Successors of the original Grantees.

That the said PRESIDENT AND FELLOWS and their Successors shall and may hereafter have a common Seal, to serve and use for all Causes, Matters and Affairs of them and their Successors, and the same Seal to alter, break and make new as they shall think fit.

That the said THOMAS CLAP shall be, and he is hereby established the present PRESIDENT, and the said *Samuel Whitman*, [etc.] shall be, and they are hereby established the present FELLOWS of the said College, and that they and their Successors shall continue in their respective Places during Life, or until they or either of them shall resign, or be removed, or displaced, as in this Act is hereafter expressed.

That there shall be a General Meeting of the *President and Fellows* of said *College*, in the College Library on the second Wednesday of September annually, or at any other Time and Place which they shall see Cause to appoint, to consult, advise and act in and about the Affairs and Business of the said College; and that on any special Emergency, the President and two of the Fellows, or any four of the Fellows, may appoint a Meeting of the said College, provided they give Notice thereof to the Rest by Letters sent and Left with them, or at the Places of their respective Abode, five Days before such Meeting; and that the President and six Fellows, or in Case of the Death, Absence, or Incapacity of the President, seven Fellows, convened as aforesaid (in which Case the eldest Fellow shall preside), shall be deemed a Meeting of the President and Fellows of said College, and that in all the said Meetings, the Major Vote of the Members present shall be deemed the Act of the Whole, and where an Equivote happens, the President shall have a casting Vote.

That the President and Fellows of the said College and their Successors, in any of their Meetings assembled as aforesaid, shall and may

from Time to Time, as Occasion shall require, elect and appoint a President or Fellow in the Room and Place of any President or Fellow who shall die, resign, or be removed from his Office, Place or Trust (whom the said Governor and Company hereby declare, for any Misdemeanor, Unfaithfulness, Default or Incapacity, shall be removable by the President and Fellows of the said College; Six of them, at least, concurring in such Act); and shall have Power to appoint a Scribe or Register, a Treasurer, Tutors, Professors, Steward and all such other Officers and Servants, usually appointed in Colleges or Universities, as they shall find necessary and think fit to appoint for the promoting good Literature, and the well ordering and managing the Affairs of said College; and them or any of them, at their Discretion, to remove; and to prescribe and administer such Forms of Oaths (not being contrary to the Laws of England or of this Colony) as they shall think proper, to be administered to all the Officers and Instructors of the said College, or to such and so many of them as they shall think proper, for the faithful Execution of their respective Places, Offices and Trusts.

That the President and Fellows shall have the Government, Care and Management of the said College and all the Matters and Affairs thereunto belonging, and shall have Power from Time to Time, as Occasion shall require, to make, ordain and establish all such wholesome and reasonable Laws, Rules and Ordinances, not repugnant to the Laws of England, nor the Laws of this Colony, as they shall think fit and proper for the Instruction and Education of the Students, and Ordering, Governing, Ruling and Managing the said College, and all Matters, Affairs, and Things thereunto belonging, and the same to Repeal and alter as they shall think fit.

That the President of said College, with the Consent of the Fellows, shall have Power to give and confer all such Honors, Degrees or Licenses as are usually given in Colleges or Universities, upon such as they shall think worthy thereof.

In 1792 a grant of money from the State of Connecticut was received, upon the condition that certain State officials should become members of the Board of Fellows, as below expressed :—

In case this grant shall be accepted, in manner as hereinafter provided, the Governor, Lieutenant Governor, and six senior assistants in the Council\* of this State, for the time being, shall ever hereafter, by virtue of their said offices, be trustees or fellows of said college; and shall together with the present President and Fellows of said College, and their successors, constitute one corporation, by the name and style

\* Changed in 1819 to the six senior senators.

mentioned in the charter of said College ; and shall have and enjoy the same powers, privileges, and authority, in as full and ample a manner, as though they had been expressly named and included in said charter ; And that in case of vacancy, by the death, or resignation, or in any other way, of any of the present Fellows of said College, and their successors, every such vacancy shall forever hereafter be supplied by them, and their successors, by election, in the same manner as though this act had never passed.

In the new Constitution of the State, adopted in 1818, the privileges conferred by the Charter were reaffirmed, as follows :—

ARTICLE VIII, SECT. I.

The charter of Yale College, as modified by agreement with the Corporation thereof, in pursuance of an Act of the General Assembly, passed in May, 1792, is hereby confirmed.

In 1872, at the request of the Corporation, an Act was passed by the General Assembly, providing (as follows) for the substitution of graduates in the place of the six senators among the Fellows :—

SECTION 1.—All graduates of the first degree, of five or more years' standing, in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, on the day next preceding the public commencement day of said College, in the year of our Lord 1872, cast their votes, under such regulations as the President and Fellows may prescribe, for six persons to be chosen from among such graduates ; and the six persons who shall be found to be elected by a plurality of the votes cast, shall be the Fellows of Yale College in the stead of the six senior senators of the State, and shall have all the rights, duties, and privileges as Fellows which are now by law conferred upon said senators. In case of an equality of votes between two or more candidates, the person who shall hold the said office of Fellow shall be designated by lot from among the persons receiving such equality of votes.

SECTION 2.—The Fellows thus elected shall enroll themselves by lot in six classes, one holding the office for six years, another for five years, another for four years, another for three years, another for two years, and another for one year, eligible for re-election ; and every year as a vacancy occurs, all graduates of the first degree, of five or more years' standing

in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, upon the day next preceding commencement day, in the manner heretofore prescribed, elect by a plurality of votes a person to fill the vacancy, and hold the office of Fellow for a period of six years, eligible for re-election ; and so whenever a vacancy shall occur from death, resignation, or any other cause, such graduates may elect a person at the next commencement to fill the office of Fellow for the remainder of the term in which a vacancy has occurred. The official year of such Fellows shall end with the day next preceding each commencement day.

In January, 1887, an Act passed the General Assembly of the State, authorizing the use of the title "YALE UNIVERSITY" by the President and Fellows of Yale College, and providing that gifts to, contracts with, conveyances to or by, and other acts affecting said Corporation by either of the names specified shall be valid.

## DEPARTMENTS OF INSTRUCTION

The courses of study offered in the University are comprehended in four Departments, under the control of the Corporation, each Department being also under the administration of a distinct Faculty of instruction. The Departments are as follows :—

THE DEPARTMENT OF PHILOSOPHY AND THE ARTS ;

THE DEPARTMENT OF THEOLOGY ;

THE DEPARTMENT OF MEDICINE ;

THE DEPARTMENT OF LAW.

Under the first-named Department are included two separately organized sections in which instruction for undergraduates is provided, viz :—

THE ACADEMICAL DEPARTMENT, and

THE SHEFFIELD SCIENTIFIC SCHOOL ;

also, THE SCHOOL OF THE FINE ARTS, with a special organization ; and The Courses for GRADUATE INSTRUCTION, under the combined Faculty of the Department.

It is to be understood that the courses of instruction above described are open to persons of the male sex only, except when both sexes are specifically included.

The LIBRARY, the PEABODY MUSEUM OF NATURAL HISTORY, and the OBSERVATORY are severally organized independently of the special Departments, and are designed to contribute, in their appropriate spheres, to the instruction and advancement of the whole institution.



# ACADEMICAL DEPARTMENT

## (YALE COLLEGE)

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### FACULTY

REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT  
JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*  
EDWARD J. PHELPS, LL.D., *Professor of Law*  
HUBERT A. NEWTON, LL.D., *Professor of Mathematics*  
ARTHUR M. WHEELER, M.A., *Professor of History*  
J. WILLARD GIBBS, PH.D., *Professor of Mathematical Physics*  
ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*  
EUGENE L. RICHARDS, M.A., *Professor of Mathematics*  
TRACY PECK, M.A., *Professor of Latin*  
REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*  
WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*  
REV. GEORGE T. LADD, D.D., *Professor of Moral Philosophy and Meta-  
physics*  
CHARLES H. SMITH, M.A., *Professor of American History*  
JULES LUQUIENS, PH.D., *Professor of Modern Languages*  
HENRY P. WRIGHT, PH.D., *Professor of Latin, and Dean*  
HENRY S. WILLIAMS, PH.D., *Professor of Geology*  
HENRY A. BEERS, M.A., *Professor of English Literature*  
EDWARD S. DANA, PH.D., *Professor of Physics*  
THOMAS D. SEYMOUR, M.A., *Professor of Greek*  
FRANK A. GOOCH, PH.D., *Professor of Chemistry*  
ALBERT S. COOK, PH.D., L.H.D., *Professor of English*  
WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*  
ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*  
GEORGE B. ADAMS, PH.D., *Professor of History*  
EDWARD P. MORRIS, M.A., *Professor of Latin*  
HENRY R. LANG, PH.D., *Instructor in the Romance Languages*  
EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*  
ARTHUR T. HADLEY, M.A., *Professor of Political Economy*  
THOMAS D. GOODELL, PH.D., *Assistant Professor of Greek*

ARTHUR H. PALMER, M.A., *Professor of German*  
HORATIO M. REYNOLDS, B.A., *Assistant Professor of Greek*  
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*  
E. HERSHEY SNEATH, PH.D., *Instructor in Philosophy*  
FRANK K. SANDERS, PH.D., *Assistant Professor of Biblical Literature*  
EDWARD T. MCLAUGHLIN, B.A., *Assistant Professor of English*  
WILLIAM PRICE, B.A., *Instructor in French*  
GUSTAV F. GRUENER, B.A., *Assistant Professor of German*  
HARLEY F. ROBERTS, M.A., *Tutor in Greek and Latin*  
EDWARD W. SCRIPTURE, PH.D., *Instructor in Experimental Psychology*  
FRANK G. MOORE, PH.D., *Tutor in Latin*  
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*  
JOHN C. SCHWAB, PH.D., *Instructor in Political Economy*  
CARLETON L. BROWNSON, B.A., *Tutor in Latin and Greek*  
WILLIAM LYON PHELPS, PH.D., *Instructor in English Literature*  
IRVING FISHER, PH.D., *Tutor in Mathematics*  
GUY V. THOMPSON, B.A., *Instructor in Latin*

#### OTHER INSTRUCTORS

REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*  
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Comparative Philology  
and Sanskrit*  
MARK BAILEY, M.A., *Instructor in Elocution*  
GUSTAVE J. STÖCKEL, MUS.D., *Professor of Music*  
WILLIAM C. ROBINSON, LL.D., *Professor of Law*  
DANIEL C. EATON, M.A., *Professor of Botany*  
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*  
JOHN H. NIEMEYER, M.A., *Professor of Drawing*  
RALPH O. WILLIAMS, B.A., *Instructor in English Composition*  
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*  
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*  
OLAUS DAHL, PH.D., *Instructor in Swedish and Danish*  
JOHN WHITMORE, PH.D., *Instructor in Physics*  
HANNS OERTEL, PH.D., *Instructor in German*

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From the date of the original Charter, in 1701, a course of instruction leading to the degree of Bachelor of Arts has been continuously offered at the College ; at first only three years of undergraduate study were required, but before 1710, a four years' course was provided, which has been since maintained.

Until 1813, when a Medical School was organized, no other course of study for a degree was marked out at Yale College ; but with the incorporation of the Medical Institution (as it was originally styled) the older Department began to be designated the Academical Institution (or Department), and has continued to be so designated until at length, with the growth of other Schools about it and the expansion of the whole into Yale University, the original title of Yale College has again come to be applied distinctively to this Department.

#### TERMS OF ADMISSION

ALL CANDIDATES FOR ADMISSION to the Freshman Class are examined in the following books and subjects ; certificates of standing elsewhere are not accepted in place of this examination :—

1. Latin Grammar.
2. Caesar—Gallic War, books i-iv.
3. Cicero—Orations against Catiline and for Archias, and, in addition, either the Milo, or the Manilian Law, or the Cato Major, or the Marcellus and the 14th Philippic.
4. Vergil—Bucolics, and first six books of the Aeneid, including Prosody.
5. Ovid—Metamorphoses, translation at sight.
6. The translation, at sight, into simple and idiomatic English, of passages from prose Latin.
7. The translation into Latin of connected passages of English prose. [As special importance is given to this part of the examination, it is suggested to teachers that they connect exercises in making Latin, both oral and written, with all the Latin studies of the preparatory course.]
8. Roman History, to the death of Augustus.
9. Greek Grammar.

10. Xenophon—Anabasis, four books.
11. Homer—Iliad, three books, with Prosody.
12. The translation, at sight, into simple and idiomatic English, of a passage from some work of Xenophon.
13. The translation into Greek of connected passages of English prose, employing the vocabulary and idioms of the first four books of Xenophon's Anabasis.
14. Greek History.
15. Higher Arithmetic—including the metric system of weights and measures.
16. Algebra—so much as is included in Loomis's Treatise, up to the chapter on Logarithms.
17. Plane Geometry.
18. French or German—so far as to translate at sight easy prose into English, and also to translate easy English exercises into French or German, the candidate being at liberty to decide for himself in which of the two languages he shall be examined.

Beginning with 1894, an examination will be held upon certain pieces of English literature, selected as well for their probable attractiveness to the preparatory student as for their intrinsic importance. With this aim in view, the list for 1894 is taken from English and American writers of the present century, and comprises the following works:

1. Coleridge: The Ancient Mariner; Scott: Ivanhoe; The Lady of the Lake; Irving: The Alhambra; Macaulay: Essay on Clive.
2. Byron: The Fourth Canto of Childe Harold; Macaulay: Essay on Byron; Hawthorne: House of the Seven Gables; Thackeray: English Humorists of the Eighteenth Century; Tennyson: The Princess.

Candidates who desire to do so, may take an examination on the works in the list marked (1), in the year 1893.

The questions will be constructed with the special view of testing the candidate's familiarity with the subject-matter. Where the literary form of the papers is incorrect, however, a special condition may be imposed.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations, that is, either in June or in September, of the first year; and at this preliminary exam-

ination each candidate must submit a definite statement from his principal instructor of the subjects which he is authorized to offer. No certificate of partial admission will be furnished, unless at least six subjects have been satisfactorily passed.

THE REGULAR EXAMINATION FOR ADMISSION to College is held at Alumni Hall, New Haven, on Thursday, Friday, and Saturday after Commencement (June 29, 30, July 1, 1893); *attendance is required at the opening of the examination, at 9 A. M. on Thursday*, and the sessions will close at noon on Saturday. The examination is wholly in writing; a set of papers recently given will be sent on application to the Dean.

In 1893 examinations (beginning on Thursday, June 29, at 9 A. M., and closing Saturday noon) for admission to the Freshman Class (but not to higher classes) will also be held in Concord and Exeter, N. H., Andover, Mass., Norwich, Conn., New York City, Albany, Buffalo, Cleveland, Cincinnati, Chicago, and San Francisco, at places to be announced in the local newspapers of the day previous. Candidates who propose to be present elsewhere than at New Haven are requested to send their names to the Registrar before June 15. A fee of five dollars (payable at the opening of the sessions) is charged for admission to examinations outside of New Haven. The College is also prepared to hold an examination, at the above-named time, in any city or at any school where the number of candidates and the distance from other places of examination may warrant it; applications for this purpose must be sent to the Dean before May 15.

A second examination is held, *in New Haven only*, at the beginning of the College year, on Tuesday and Wednesday (September 26, 27, 1893); candidates for this examination must be present at Alumni Hall at 9 A. M. on Tuesday.

Persons applying for admission to any class in College during the course of the College year (from September to June) must first obtain from the Faculty permission to be examined, and pay to the Treasurer a fee of ten dollars.

In general, examinations for admission to the next Freshman Class can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

**ADVANCED STANDING**—All candidates for advanced standing, *whether from other Colleges or not*, are examined, in addition to the preparatory studies, in those studies already pursued (see pp. 39 ff.) by the class which they wish to enter. In the several languages, for the particular books studied by the class, equivalent amounts from other books may be offered. Certificates of standing elsewhere cannot be accepted in place of these examinations, although they may be taken into account as collateral evidence of fitness for admission.

Bachelors of Arts or of Philosophy of any institution may join the Senior Class (without examination and without becoming candidates for the Bachelor's degree), as candidates for the degree of Doctor of Philosophy after three years' study.

No one can be admitted to the Senior Class after the beginning of the second term.

**AGE**—No one can be admitted to the Freshman Class till he has completed his fifteenth year, nor to an advanced standing without a corresponding increase of age.

**TESTIMONIALS**—Satisfactory testimonials of good moral character (preferably from the last principal instructor) are in all cases required, before a certificate of admission in full is granted. Students from other Colleges must present certificates of admission in good standing.

**BOND**—Every person must give to the Treasurer, on being admitted, a bond, executed by his parent or guardian, for five hundred dollars, as security for the payment of charges arising under the laws of the College. A blank form for this purpose is furnished at the time of admission

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## GOVERNMENT AND INSTRUCTION

The Dean has the general supervision under the Faculty of the Senior and Junior classes ; the members of the two lower classes are assigned by divisions for a similar supervision to the care of the instructors in those classes. Absence from College exercises is excused only for extremely urgent reasons. In general, a student cannot be excused for absence at the beginning or near the end of a term.

In order to cover all cases of absence which may seem justifiable to the student, but for which no excuses will be accepted, an allowance is granted to a member of the Senior or Junior class of absence from eight class-room exercises (recitations, lectures, or rhetorical appointments), and to a member of the Sophomore or Freshman class from six class-room exercises, during the first term and during each half of the second term, without incurring marks and without affecting his record for scholarship ; provided that these absences shall not immediately precede or follow a vacation or recess ; provided, also, that no two absences shall be consecutive in any one study, and that such absences shall not excuse the student from preparation upon the omitted lessons when reviewed.

The members of each of the three lower classes are arranged at the beginning of each term in divisions according to scholarship. During the present year, for required work the Junior class is divided into six divisions, the Sophomore into eight divisions, and the Freshman class into ten ; in the elective courses, the divisions are of convenient size for class-room work.

Greek, Latin, and Mathematics occupy twelve and ten and a half hours of class-room work per week during the Freshman and Sophomore years respectively ; three hours of class-room work per week during the Freshman year, and two hours during the Sophomore year, are given to Modern Languages ; two and a half hours per week through the Sophomore year and one hour in the Freshman year are given to English.

If a student can pass a satisfactory examination in any of the prescribed studies for the work of one year in advance, he may be allowed to choose from the list of Electives some other course which he is qualified to pursue with advantage, covering the same number of hours.

In the Freshman and Sophomore years all the work is *prescribed*. The kind and amount of study in these two years are believed to be such as are essential for laying the foundation of a liberal education, whatever the department or profession that may be pursued in after-life ; and no more than is needed to give the student a proper basis of knowledge and discipline for the study of the *elective* courses which follow, and that knowledge of himself, and of the subjects before him, which is needed for a judicious choice. The basis is necessarily a broad one. The only prominent departments not now in this foundation, either in the preparatory or college work, though pursued in the later elective courses, are those of the Natural Sciences and Chemistry. As some knowledge of these departments, of their methods of reasoning, of the use of the words "species" and "genus," and some idea of the system of nature, are essential to the student of almost any branch of philosophy, as well as to those who may take the elective courses in these sciences, it is recommended that the student should include the study of the elements of some departments of the Natural Sciences, and of Chemistry, in his preparation for College.

Of the work of the Junior year two-thirds and of that of the Senior year over four-fifths are in elective studies. The whole number of elective courses open to the two classes is at the present time one hundred and twenty-eight ; and in addition there are several courses of lectures, attendance on which is optional. The Juniors have open to them elective studies in the English Language and Literature, the Fine Arts, History, Political Science, the Natural Sciences, and Music, in addition to those in the departments of the Classics, the Modern Languages, and Mathematics ; and the Seniors, electives under all these departments, along with others of higher range as explained below.



Many of the courses fall naturally into groups: as that of the Ancient Languages and Linguistics; Psychology, Logic, and Philosophy, with Ethics; Political Science and Law; History; Modern Languages and Literature; Mathematics and Physics; Chemistry and the Natural Sciences; and the student is recommended to select his courses as far as possible according to his needs, in part perhaps according to his expectations as to future work, fixing first upon the chief subject, and selecting others that are subsidiary to it. In several cases, related courses are accessible to the student only as they are taken consecutively.

To promote the rational choice of elective courses, SPECIAL HONORS in various groups of studies are offered, to be given at the end of the Senior year, in accordance with the scheme on page 73.

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THE PROGRAM OF STUDIES for the current year is as follows:

FRESHMAN YEAR:

*Greek*—Homer's *Odyssey*, first four books; Selections from Herodotus; Thucydides, book vii.

*Latin*—Livy, books i and ii; Cicero de *Amicitia* and de *Senectute*; Prose Composition; History of the Roman Republic.

*French or German*—Three hours a week throughout the year. Students may at their option either continue the study of the modern language presented for admission to college, or begin the study of German in case they have not previously pursued it. Those who have sufficient knowledge of either language will be assigned to classes still further advanced.

*Mathematics*—In *Geometry*: Planes, Polyhedrons, Cones, Cylinders, and Spheres. Projection of figures with exercises on Models. Text-book, Chauvenet's *Geometry*.

*Plane Trigonometry*: Solutions of Triangles, Mensuration, and Surveying. Text-book, Richards's *Trigonometry*.

*Mechanics*—The elementary principles of Kinematics, Kinetics (or Dynamics), and Statics, in reference to solid bodies, with practical applications. Text-book, Dana's *Mechanics*.

*English Literature*—Three hours a week through twelve weeks. Brooke's *Primer*; three plays of Shakespeare; Milton's *Minor Poems*.

## SOPHOMORE YEAR:

*Greek*—Aeschylus' Prometheus; Euripides' Medea; Sophocles' Oedipus Tyrannus.

*Latin*—Pliny's Letters; Agricola and Germania of Tacitus; Brutus of Cicero; Odes and Epodes of Horace; Trinummus of Plautus; Phormio of Terence; Sight-reading.

*Modern Languages*—Advanced French, or advanced German, at the option of the student, two hours a week throughout the year. Those who so desire may begin the study of German, in case they have never pursued it.

*Mathematics—Trigonometry*: Spherical Trigonometry; Applications to Navigation and Astronomy. Text-book, Richards's Trigonometry.

*Algebra*: The Geometrical interpretation of the Theory of Equations, Imaginaries, and the Solution of Higher Equations. Text-book, Phillips & Beebe's Graphic Algebra.

*Analytical Geometry*: Plane and Solid, with Applications to Map-Projection. Text-book, Wentworth's Analytical Geometry.

*Astronomy*—Young's Elements.

*English Literature*—Short poems, especially Milton's. Selections from literary criticism. One play of Shakespeare. Required outside reading in essayists of this century.

*English Composition*—Weekly exercises in composition throughout the year.

## JUNIOR AND SENIOR YEARS:

The *prescribed* studies of Junior year occupy five hours per week, and those of Senior year two hours per week. In addition, each member of the Junior class is required to select ten, and each member of the Senior class thirteen hours per week, from the list of *elective* courses.

## PRESCRIBED STUDIES OF JUNIOR YEAR:

*Physics*—Juniors are required to take a two-hours course in Physics: either a general course covering the whole subject or a somewhat more advanced course embracing Heat and Electricity; an elective course in Sound and Light is also offered to those taking the second course. (See further, p. 59.)

*Logic*—Jevons's Lessons in Logic; Fowler's Inductive Logic; exercises in the criticism of arguments; lectures.

*Psychology*—Porter's Human Intellect; lectures.

*Ethics*—Porter's Elements of Moral Science.

## PRESCRIBED STUDIES OF SENIOR YEAR :

*Philosophy*—One course in this department of study, two hours per week throughout the year, is prescribed. The particular course taken is left, however, to the choice of the pupil from a list of four or more courses. Under the term *Philosophy*, as here used, is included the study of psychology, ethics, and the history of philosophy.

## RHETORIC AND ELOCUTION :

*Rhetoric*—English Composition, Sophomore year. See above ; and further explanations on page 67. For premiums in this department see pp. 87-88.

*Elocution*—Sophomore Year: Lectures on the Science and Art of Elocution,—logical analysis,—vocal analysis, expression, and culture,—oratorical action. Practice in speaking and recitation by sub-divisions. Individual instruction and private drill in preparation for speaking before the Professor of Rhetoric for the "Prizes for Declamation."

Junior Year: Three weeks of preparatory training for the speakers at the Junior Exhibition.

Senior Year: Three weeks of preparatory training for the speakers at Commencement.

## ELECTIVE COURSES

Juniors and Seniors have fifteen hours of class-room work, to be chosen from this list with the following limitations :

Seniors are required to choose one of the four courses 1, 2, 3, 4 ; Juniors are required to take course 9 ; also, either course 102 or 103. Courses marked for "both terms" cannot, if chosen, be abandoned during the year.

## I. PSYCHOLOGY, ETHICS, AND PHILOSOPHY

Professor LADD :—

- 1 *Introduction to Philosophy*. [Seniors.] 2 hrs. both terms.

This course is designed to present, in an elementary and summary way, the principal philosophical problems. It may properly be taken by all who desire any acquaintance with philosophy as a means of general culture. One hour each week throughout the

year is taken up with a lecture; the other with oral and written work by the class, recitation, discussion, questions, papers, etc. The exercises are based upon some book giving a general treatment of the subject, supplemented by study of several of Lotze's "Philosophical Outlines."

During the latter half of the course special emphasis is laid upon the philosophy of life and conduct, in connection with the discussion of problems in Ethics, Aesthetics, and the Philosophy of Religion.

Dr. SCRIPTURE :—

2 *Physiological Psychology.* 2 hrs. both terms.

A study (illustrated by charts, models, and histological preparations) of the human nervous mechanism, of the principal relations which exist between changes in this mechanism and the activities of the mind, and a discussion of the conclusions which may be drawn from these relations respecting the nature and laws of the mind. Ladd's *Elements of Physiological Psychology*.

Assistant Professor DUNCAN :—

3 *History of Philosophy.* [Seniors.] 2 hrs. both terms.

An elementary study of the development of speculative thought from Descartes to the present time, with cursory reading of philosophical masterpieces from Descartes to Kant. Descartes' *Method* and *Principles of Philosophy*, pt. i; Bacon's *Novum Organum*; Spinoza's *Ethics*—selections; Locke's *Essay on Human Understanding*—selections; Leibnitz's *Monadology* and *Philosophical Opuscles*; Berkeley's *Principles of Human Knowledge*; Hume's *Inquiry concerning Human Knowledge*; Kant's *Prolegomena*.

Dr. SNEATH :—

4 *Ethics.* [Seniors.] 2 hrs. both terms.

An historical and critical study of Ethical Theory. The course comprises—

1. *History of Ethics.*—a. Ancient Ethics, including Greek and Graeco-Roman Ethics, Christian and Medieval Ethics. b. Modern Ethics, including English Ethics from Hobbes to Leslie Stephen, and German Ethics from Kant to Hartmann. Sidgwick's *History of Ethics*, with references to Jodl's *Geschichte der Ethik*.

2. *Critical Study of Ethical Theory.*—Views of the various schools concerning the fundamental notions of morals compared and criticized. Sidgwick's *Methods of Ethics*, and Martineau's

Types of Ethical Theory. The class-exercises consist of lectures, oral and written recitations, and expository and critical essays by the students.

Professor LADD:—

5 *Readings in Philosophy.* [Seniors.] 2 hrs. both terms.

Several of the most recent and quickening books on the different aspects or problems of modern philosophy are read during the year. The readings are accompanied by lectures, discussions, papers, etc. The design of the course is to secure a somewhat special acquaintance with the current thoughts on philosophical topics, for the year.

[The following courses, 6, 7, 8, designed mainly for graduate students, are open to Seniors who wish to make a special study of philosophy, on application to the instructor.]

Professor LADD :—

6 *Kant Seminary.* [Seniors.] 2 hrs. both terms.

The class meets one evening each week for the study of Kant. During the year the Critique of Pure Reason and the Critique of Practical Reason will both be read. An expository and critical lecture of about thirty minutes will, in general, precede the discussion by the teacher and class of each passage. Each member of the class is expected to take part in the questions, discussions, and preparation of papers.

Assistant Professor DUNCAN :—

7 *Advanced Psychology.* [Seniors.] 2 hrs. both terms.

Sully's "The Human Mind" is read as a basis for examination of the principal topics in this subject. Especial attention is paid, by supplementary reading and by discussions, to recent investigations and advances in empirical psychology.

Dr. SNEATH :—

8 *Psychology and Philosophy of Education.* 2 hrs. both terms.

a. The psychological basis of education is carefully studied. The chronological development of the mental powers, the dependence of the higher activities upon the lower, the interdependence of the psychical processes generally, and the

measurement of mental faculty in its bearings upon the theory and practice of education are some of the most important subjects considered. Sully's "Teacher's Hand-book of Psychology," Compayre's "Lectures on Teaching," with references to other works.

b. A thorough study of the philosophical basis of educational theory and practice. Rosenkranz's "Philosophy of Education."

Assistant Professor DUNCAN and Dr. SNEATH :—

9 *Elementary Course in Psychology, Logic, and Ethics.*

[Juniors.] 3 hrs. both terms.

## II. POLITICAL SCIENCE AND LAW

Professor HADLEY :—

10 *Economics (Elementary Course).* 2 hrs. both terms.

A general introduction to the science. Walker's Political Economy is used as a text-book, supplemented by lectures and discussions of the more important problems of theory and practice.

Professor HADLEY, Dr. SCHWAB, and Dr. FISHER :—

11 *Economics (Advanced Course).* 3 hrs. both terms.

Open only to those who have taken course 10. This course is intended for those who have special interest in the subject, and is divided into sections small enough for effective oral work of recitation and instruction. Each section will meet each of the officers named during part of the year. Professor Hadley will give instruction in the History of Political Economy with special reference to modern Economic Theories; using as text-books Jevons's Theory of Political Economy and Sumner's Economic Problems. Dr. Schwab will give instruction in the principles of Currency, Banking, Taxation, and Public Debts, with special reference to the financial history of the United States, using as text-books Jevons's Money, Dunbar's Banking, and Adams' Public Debts. Dr. Fisher will give instruction in the Tariff History of the United States; this will include a discussion of the general theory of international exchange, its effect on prices and distribution; the history of the protection sentiment and the various theories of protection; Taussig's Tariff History of the United States will be used as a basis.

Dr. SCHWAB :—

12 *Economics (Special Course)*. [Seniors.] 1 hr. both terms.

Candidates for honors and others desiring to make special investigations of original authorities are advised to take this course. The financial history of the United States since 1860 is the subject of class-room work for the year, but provision is made for those who prefer to pursue investigations in other departments of Economics. Each student is expected to investigate an assigned topic thoroughly, and to prepare a series of papers upon it. No one is admitted who does not take course 11, and who has not done good work in history and economics in Junior year.

Dr. FISHER :—

13 *Economics (Mathematical Course)*. 1 hr. both terms.

Analytical, graphical, and mechanical methods applied to production, consumption, exchange, and the determination of prices. Jevons' Theory of Political Economy is used as a basis. Students acquainted with German and French read parts of Auspitz und Leiben's *Untersuchungen über die Theorie des Preises* and Walras's *Éléments d'Économie politique pure*.

Instruction is given in the conceptions and processes of the Calculus (covering fifty pages from Loomis's Elements), sufficient to enable the student to understand their applicability to social problems.

Professor SUMNER :—

14 *Social Science*. [Seniors.] 2 hrs. both terms.

A very elementary course in Anthropology and Ethnology, with the origin of civilization and the development of social institutions. The object is, by a scientific study of human society, to acquire a standpoint for the study of social problems. Those who are able to read difficult French or German may join special divisions to read text-books in those languages. For such divisions the course is counted as a three-hour course. The French text-book is Quatrefages' *Histoire Générale des Races Humaines*; the German text-book will be Lippert's *Kulturgeschichte*.

[The two next courses are continuous, and anyone taking course 15 in the first term must take course 16 in the second.]

## Professor ROBINSON :—

15 *Jurisprudence.* [Seniors.] 2 hrs. 1st term.

The course consists of lectures, readings, and examinations on the following subjects: law in its relations to the origin, development and government of political society; origin and development of customary law; relation of statute law to customary law; formation and development of codes of law; nature and origin of legal rights; principles of the law governing rights in land; principles of the law governing contract rights; the law of remedies for the violation of rights; origin and procedure of courts of law and equity; criminal law. The instruction in this course is designed to present an historical and philosophical view of the law in its great outlines, as common to all nations, and as particularly developed in the Anglo-Saxon race, and thus to serve as an introduction to the courses of Professor Phelps in Municipal, Constitutional and International law.

## Professor PHELPS :—

16 *Law.* [Seniors.] 2 hrs. 2d term.

The common law of this country. Constitutional law. International law. The instruction is by lectures based upon textbooks to be read in connection.

This course is only open to those who have taken course 15.

## III. HISTORY

## Professor WHEELER :—

17 *History of Europe since 1789.* [Seniors.] 2 hrs. both terms.

Mainly political; introductory to European politics of our day.

18 *English History.* [Seniors.] 3 hrs. both terms.

Political and constitutional. Particular attention is given to the origin and development of the system of self-government. The course is of especial value to those who intend to study law.

## Professor C. H. SMITH :—

19 *American History (Colonial).* 2 hrs. both terms.

Exploration and early settlement of North America, and colonial history to the close of the revolutionary war.



- 20 *American History (Political).* 2 hrs. both terms.  
Political history of the United States to the inauguration of President Hayes.
- 21 *American History (Constitutional).* 2 hrs. both terms.  
An historical study of the federal and state constitutions to the present time.

Professor ADAMS:—

- 22 *Medieval History.* 2 hrs. both terms.  
The object of the course is to furnish an outline of the general history of Europe, and to follow the development of political, intellectual, and religious civilization through the period which lies between ancient and modern history.
- 23 *Europe from 1520 to 1789.* [Seniors.] 2 hrs. both terms.  
The history of Europe from the Reformation to the French Revolution. Especial attention is given to the political history.
- 24 *The Renaissance Age.* [Seniors.] 1 hr. both terms.  
A limited number of Seniors who are candidates for honors in History will be admitted to the instructor's graduate course in the Renaissance Age. The work consists in the individual study of assigned topics upon which reports are made to the class. The topics are so arranged that with the lectures given they will constitute a continuous history of the period.

#### IV. MODERN LANGUAGES

Professor LUQUIENS:—

- 25 *Old French.* 1 hr. both terms.  
Bartsch and Horning as a basis; Chanson de Roland; Roman de Rou; Roman de la Rose; Aucassin et Nicolette.
- 26 *Course of Conversation.* 2 hrs. 1st term.  
Topic: The French Revolution.
- 27 *Course of French Literature.* 2 hrs. 1st term.  
The xvth Century; Darmesteter and Hatzfeld's *Seizième Siècle* is used as a text-book.
- 28 *French Literature of the XIXth Century.* 2 hrs. 2d term.  
Chateaubriand; the Romanticists; the historians.

## DR. LANG :—

- 29 *Provençal.* 1 hr. both terms.
- 30a. *Spanish, elementary.* 3 hrs. both terms.
- 30b. *Spanish, advanced course.* 1 hr. both terms.  
Epic poetry ; early drama ; historic grammar.
- 31a. *Italian, elementary.* 3 hrs. both terms.
- 31b. *Italian, advanced course.* 1 hr. both terms.  
*Divina Commedia* ; early Renaissance ; historic grammar.

## Assistant Professor McLAUGHLIN :—

- 32 *Dante.* 2 hrs. both terms.  
The *Vita Nuova*, and selected cantos of the *Commedia*.

## Professor PALMER :—

- 33 *Second-year German.* 2 hrs. both terms.
- 34 *Schiller, Works and Life.* 2 hrs. both terms.  
Rapid reading of poems, plays, and prose writings of Schiller, with some investigation of his influence on German literature.
- 35 *Goethe, Works and Life.* 3 hrs. both terms.  
After outline study of Goethe's life and development in connection with his lyric poems, his early prose writings, and his principal dramas, particular attention will be given to Faust I and II, the later prose works, and Goethe's important utterances in letters, journals, and conversations.
- 36 *History of German Literature since 1740.* 2 hrs. both terms.  
Beginning with the time of Klopstock, the development of the literature will be followed as near to the present as is feasible, with special attention to the Classical Period and the Romantic School, characteristic authors and works, and a summary view of the literature since 1832.
- 37 *Gothic.* 1 hr. both terms.  
Braune's Grammar and Heyne's *Ulfilas*.
- 38 *Introduction to Germanic Philology.* 1 hr. both terms.

## Assistant Professor GRUENER :—

- 39 *Elementary German.* 3 hrs. both terms.
- 40 *German Prose.* 2 hrs. both terms.  
A course in rapid reading. Selections from biography, history, and critical essays.
- 41 *Middle-High German.* 2 hrs. both terms.  
Hartmann. Nibelungenlied. Selected poems of Walther von der Vogelweide. Lectures and papers.

## Dr. OERTEL :—

- 42 *German Composition and Conversation.* 2 hrs. both terms.  
For practice in speaking and writing. Translations into German of narrative prose and of selections from history and literature. Special topics are assigned for discussion in German. This course is conducted in German.

## Dr. DAHL :—

- 43 *Norwegian and Danish.* 2 hrs. both terms.  
The elements of the language learned inductively by reading selections from the writings of modern authors. This course is intended more especially for those who make a scientific study of English, or those who wish to obtain a general knowledge of the Teutonic languages.
- 44 *Old Norse (Icelandic).* 2 hrs. both terms.
- 45 *Swedish.* 1 hr. both terms.  
Reading of selections from Tegnér's poems and the works of modern authors.

## Professor BEERS :—

- 46 *English Poetic Masterpieces.* [Juniors.] 2 hrs. both terms.  
Critical readings in the class-room in the text of the Canterbury Tales, the Faery Queene, the principal plays of Shakespeare, and the Poetry of Milton.
- 47 *History of the English Drama.* [Seniors.] 2 hrs. both terms.  
The examination of representative tragedies, comedies, histories, farces and masques from Marlowe to Sheridan, with some attention to modern verse-dramas by Byron, Shelley, Browning, Tennyson, Swinburne, etc.

48 *History of English Romanticism from 1726 to 1890.*

1 hr. both terms.

This course is designed for special students of literary history. The instruction is given almost entirely by lectures, and examinations are held upon a somewhat extensive course of assigned reading.

## Professor Cook :—

49 *History of English Literature.*

2 hrs. 1st term.

An outline of the subject, on the basis of Brooke's Primer, Taine, Morley's First Sketch, and tenBrink's early English Literature, supplemented by outside reading. Frequent preparation of brief papers on assigned topics.

50 *Chaucer.*

2 hrs. 1st term.

Reading of selected Canterbury Tales, chiefly as literature.

51 *Old and Middle English.*

2 hrs. both terms.

An elementary course in the beginnings and earlier development of the English language and literature. Examination of the various elements of the modern English vocabulary, and especially of the Saxon or Germanic element. Translation of Old English prose. Philological interpretation of selected passages by the instructor. Sweet's Anglo-Saxon Reader; ten Brink's Early English Literature; Cook's Sievers' Old English Grammar; Bede's History; Pauli's Life of King Alfred. Reading of selections from Chaucer and other Middle-English writers for linguistic purposes.

52 *English Essayists.*

2 hrs. 2d term.

Study of the opinions and style of selected prose authors, ranging from the Elizabethan era to the present. Frequent preparation of brief papers on assigned topics.

53 *Shakespeare.*

2 hrs. 2d term.

Critical study of a few selected plays. The Leopold edition of Shakespeare; Moulton's Shakespeare as a Dramatic Artist; Schmidt's Shakespeare-Lexicon; annotated editions of single plays, etc. Frequent preparation of brief papers on assigned topics.

54 *Bacon.*

2 hrs. 1st term.

Bacon's Essays and Advancement of Learning. Study through paraphrase and amplification. Bacon's character, opinions, and style. His place in Elizabethan literature. Frequent preparation of brief papers on assigned topics.

- 55 *Tennyson.* 2 hrs. 1st term.  
Critical study of selected poems. Tennyson's theory of life literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- 56 *Browning.* 2 hrs. 2d term.  
Critical study of selected poems. Browning's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- 57 *American Literature.* 2 hrs. 2d term.  
Study of selected authors, such as Emerson, Hawthorne, Lowell, etc., with outside reading in authors or works not undertaken in class.

## V. ANCIENT LANGUAGES AND LINGUISTICS

Professor WHITNEY :—

- 58 *Sanskrit.* 4 hrs. both terms.  
Instruction in Sanskrit, beginning with the instructor's Sanskrit Grammar, and passing on to Lanman's Reader, etc., and to various branches of the literature, whether Vedic or classical, as may suit the advancement and the tastes of the student.

Professor SEYMOUR :—

- 59 *Homer.* 2 hrs. 1st term.  
Introduction to the critical study of Homer. Lectures on the history of Homeric study, Epic poetry, the composition and transmission of the poems, life in the Homeric times in its various aspects. Homeric language and verse. Interpretation of the first books of the Iliad.
- 60 *The Phaedo of Plato.* 2 hrs. 1st term.  
Introduction to the literary and philosophical study of Plato; observing carefully the dramatic character of the work, the connection of thought and the marks of division in the argument, with special attention to the characteristics of Plato's style.

- 61 *Theocritus.* 2 hrs. 2d term.

The bucolic and dramatic idyls, the addresses to Ptolemy and Hiero, and the more important of his other poems will be read, with a comparison of the various imitations, and a study of the artistic composition of each poem.

- 62 *Aristotle's Nicomachean Ethics.* 2 hrs. 2d term.

Books I-IV and X, with a study of Aristotle's methods of research and statement.

Mr. KITCHEL :—

- 63 *Thucydides ; the Sicilian Expedition.* 2 hrs. 2d term.

Selections from Books vi and vii. Special attention is paid to the characteristics of Thucydides as a writer of history, to the topography involved, and to the relation of the Sicilian Expedition to the History of Greece.

Assistant Professor CLAPP :—

- 64 *Aristophanes.* 2 hrs. 1st term.

The Birds and Frogs. The plays are studied chiefly from the literary point of view, and questions of meter and scenic antiquities are discussed only so far as may help to the fuller appreciation of what is read. The peculiarities of the Attic Old Comedy are analyzed and the plays contrasted with Roman and modern works.

- 65 *Homer.* 2 hrs. 2d term.

In this course from 6000 to 8000 lines of the Iliad will be read, including all the most important portions of the work. The principal object is to give the student a clear and comprehensive idea of the poem as a whole, but the last six books will be discussed with special reference to some recent views of the origin of the Iliad. Considerable attention is given to the correct and intelligent reading aloud of the Greek text.

Assistant Professor GOODELL :—

- 66 *Sophocles.* 2 hrs. 1st term.

The *Oedipus Rex*, with special attention to the artistic form, as in dramatic construction and in the use of metres.

67 *Athenian Political and Legal Institutions.* 2 hrs. 2d term.

An introduction to the subject. Aristotle's *Athenian Constitution* is made the basis of the work; this is supplemented by lectures and private reading. A knowledge of German or French, or both, is an advantage, but is not required.

68 *Topography and Monuments of Athens.* 1 hr. both terms.

The object of the course is to gain as good an idea as the time allows of the external appearance of ancient Athens and Attica. Photographs, plans, the descriptions of travelers, and the results of recent excavations are studied partly in class and partly in private. The course includes therefore an introduction to Greek architecture, and in connection with the Parthenon and other temples some attention is given to sculpture. When but little outside preparation is required the time of the exercise may be extended to two hours.

## Assistant Professor REYNOLDS :—

69 *Euripides.* 2 hrs. 1st term.

The *Alcestis* and *Hippolytus*. This course includes a systematic study of Euripides as a poet, with lectures on scenic antiquities, metres, and mythology.

70 *Euripides.* 2 hrs. 2d term.

The *Bacchae*, *Iphigenia in Aulis*, *Ion*, and *Supplikes*. (See note to the preceding course.)

71 *Aristotle's Poetics.* 2 hrs. 1st term.

Reading and discussion of Aristotle's opinions and principles, with illustrations from modern literature.

## Professor PECK :—

73 *Early Latin.* 1 hr. both terms.

Study of ante-classical forms, constructions and literature, based on Allen's *Remnants* and Merry's *Selected Fragments*.

[This course can be taken by such undergraduates only as have done superior work in Latin, and is specially commended to those who expect to teach Latin.]

74 *Cicero.* 2 hrs. both terms.

Familiar letters, *de Oratore*, *pro lege Manilia*.

Special attention will be given the first term to Cicero's private character and to colloquial Latin, and the second term to Cicero's literary and oratorical qualities.

- 75 *Hexameter poetry.* 3 hrs. 2d term.  
Ennius (Annals), Lucretius, Vergil (Georgics), Horace (Epistles).

Professor H. P. WRIGHT :—

- 76 *Juvenal and Martial.* 2 hrs. 1st term.  
Satires i, iii, iv, v, vii, viii, of Juvenal, with selections from Martial, with special reference to a study of the private life of the Romans.

Professor MORRIS :—

- 77 *Plautus.* 2 hrs. 1st term.  
The *Captivi*, with special work on metres and on the language and style.
- 78 *Reading at sight. Prose.* 1 hr. 1st term.  
Readings in the later writers not commonly included in the college course. The selection will be left in part to the class.  
The sessions will last two hours and no outside work will be required.
- 79 *Reading at sight. Poetry.* 1 hr. 2d term.  
Readings in the later poets. Similar to the preceding course.

[Undergraduates may also be admitted to the Graduate course in Historical Syntax by special arrangement with the instructor.]

Dr. MOORE :—

- 80 *Latin Composition.* 2 hrs. both terms.  
Much time will be given to the reading of Erasmus' Colloquies. Conversation and original composition. The course is open only to those who have done superior work in Latin.

## VI. BIBLICAL LITERATURE

Assistant Professor SANDERS :—

- 81 *Hebrew (first course).* 4 hrs. 1st term.  
Genesis i-iv, and with these chapters, (a) the etymological principles of the language; (b) the translation of Hebrew into English and English into Hebrew; (c) the acquisition of a moderate vocabulary.



82 *Hebrew (second course).* 2 hrs. 2d term.

Genesis v-viii studied in detail, Exodus i-xxiv more rapidly, with special attention to (a) the mastery of the etymology, (b) the general principles of syntax, (c) the principal prose accents.

Course 82 must be elected by those who elect course 81.

83 *Hebrew (third course).* 2 hrs. 2d term.

The critical translation of portions of the Books of Samuel in connection with (a) lectures on the history and peculiarities of the Hebrew language, and on the simple principles of textual criticism; (b) rapid sight-reading in historical Hebrew.

Course 83 should be elected by those who desire to take advanced Hebrew work in the theological seminary or in graduate study.

84 *Arabic.* 2 hrs. both terms.

The Arabic version of Genesis i-iii (Lansing's Arabic Manual), and with these chapters the principles of the language; reading of selected Suras of the Qurân; lectures on early Arabian civilization, Arabic literature, the structure and contents of the Qurân, and the history of Islam.

85 *Assyrian.* 2 hrs. both terms.

This course will cover (a) the principles of the language, (b) the mastery of the most common cuneiform signs, (c) reading of cuneiform and of transliterated texts, (d) lectures on Assyrian history and literature, with especial reference to its bearing on Biblical literature.

Courses 84 and 85 will not be offered together. Either will be given, according to choices.

86 *Prae-Biblical and Biblical History.* 1 hr. both terms.

A series of outline lecture-studies, outlines being dictated and literature assigned for reading, on the history, religion and distinctive traits and ideas of the Egyptian, Arabian, Assyrian, Canaanitish and Phoenician peoples, especially as these relate to the origin and development of the Israelitish nation. The history of Israel will also be treated in its broad outlines.

87 *The Minor Prophets.* 1 hr. both terms.

A study of this portion of the English Bible as literature. It includes the historical environment of each prophet, the analysis and paraphrase of his prophecy, a study of the literary charac-

teristics, the constructive ideas and the permanent teaching of his sermons, and a survey of the prophets as related to one another.

88 *Old Testament Psalm and Wisdom Literature.*

2 hrs. both terms.

This course comprises (a) a study of the Psalter, including the personal, historical and literary elements, its formation and its ideas; (b) a similar study of the books of Hebrew Wisdom, Proverbs, Job, and Ecclesiastes; (c) the place of the sages in the Israelitish polity, as contrasted with the prophets and the priests; (d) Israelitish philosophy in its relation to modern thought.

President DWIGHT :—

89 *The Epistles of Paul.*

1 hr. both terms.

A study of these Epistles as connected with the development of the thoughts of the writer.

## VII. THE FINE ARTS

Professor WEIR :—

90 *Technical Course in Art.* [Seniors.] 2 hrs. both terms.

This course consists of two exercises a week of two hours each, and is open only to those who have taken the course in Drawing in the Junior year. The course consists principally of studies in Water-color Painting, and includes lectures on the Grammar of Art, on Painting, Sculpture and Architecture technically considered, with a critical account of the various Schools and their representative Masters. The lectures are fully illustrated by the use of the hydro-oxygen lantern, and are open to the voluntary attendance of all other members of the Senior class.

Professor NIEMEYER :—

91 *Course in Drawing.* [Juniors.] 2 hrs. both terms.

This course consists of two exercises a week of two hours each, in Drawing from the Antique and from the Life. The course in Drawing is supplemented by lectures in Linear Perspective and the analysis of the Muscular Movements of the Human Body as expressed in the external forms.

Professor HOPPIN :—

92 *History of Art.*

[Juniors, Seniors, and Graduate Students.] 2d term.

A course of lectures on Greek Art—Sculpture, Architecture, and Painting—treating it by its periods or cycles, and with reference to Greek thought and literature. The lectures of the current year will be a continuation, not repetition, of last year's course, and will embrace the Alexandrine and Graeco-Roman periods. When the course on Greek Art is concluded, if time permit, the historical beginnings of Modern Art, in its relations to ancient Art, will be entered upon.

These lectures are open to the voluntary attendance of all members of the Junior and Senior classes. The lectures are illustrated throughout by the use of the hydro-oxygen lantern.

VIII. NATURAL AND PHYSICAL SCIENCE

Professor WILLIAMS :—

93 *General Geology.* 2 hrs. both terms.

This course consists of study of the Elements of Geology as set forth in Dana's Manual of Geology (3d edition, 1880), with recitations, supplemented by examination of specimens, informal explanations, and occasional formal lectures.

94 *History of Organisms.* [Seniors.] 2 hrs. both terms.

An introduction to the study of the geological history and evolution of organisms; including a discussion of the principles of the formation, succession, distribution, and classification of geological deposits, the nature of geographical conditions as environment for organisms, the nature of the successive modifications of the morphological characters of organisms, and the theories explaining them, as illustrated by the facts of palaeontology. Seniors desiring this course should also take course 93; those intending to elect it in following years, should choose course 93 in Junior year.

95 *Special Geology.* [Seniors.] 1 hr. both terms.

This course is open to those who also take course 93 or have previously taken an equivalent. It consists of the study of special problems of Geology, by reading memoirs and treatises, the ex-

amination of geological materials and field-work, with the preparation of essays and detailed reports.

The work of each student is adapted to his individual tastes, previous preparation, and aims. For the general student it is intended as a training in accuracy of observation and in precision of noting and recording facts observed; for those seeking a full knowledge of the science, it will serve as a training in the methods of scientific investigation and as a beginning in the acquirement of the facts of the science.

Professor E. S. DANA :—

96 *Mineralogy and Crystallography.* 2 hrs. both terms.

Practical study of mineral species by means of blowpipe analysis and other methods; mathematical study of crystals by the methods of analytical and spherical trigonometry, as also of their optical properties. The time is divided about equally between the two parts of the subject; the practical exercises are prolonged to cover two hours when but little outside preparation is called for.

97 *Descriptive Mineralogy.* [Seniors.] 1 hr. both terms.

Advanced course in the study of mineral species for those who have already gone through course 96.

Professor EATON :—

98 *Botany.* [Juniors.] 2 hrs. 2d term.

An elementary course in the botany of flowering plants. Recitations from Gray's Structural Botany from January till about May 1st, followed by practical work in examining and identifying the ordinary native plants of the vicinity. The class is limited to twenty students.

99 *Pteridology and Bryology.* [Seniors.] 2 hrs. both terms.

This course begins with practical work in the dissection and examination of vegetable tissues, with especial reference to the structure of ferns and mosses. After some facility has been gained in this kind of work, the time is devoted to the examination of as many mosses as possible, with a view to becoming familiar with the genera and with a large number of species. Those who take this course are expected to devote considerable time to field-work and to making collections for their own use. The course is limited to those who have taken a preliminary course in the study of flowering plants.

Professor A. W. WRIGHT :—

100 *Physics*. 2 hrs. both terms.

Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light, and electricity, each exercise occupying two hours. As introductory to the laboratory practice, the exercises, during a portion of the first term, consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments, and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises. Kohlrausch's *Physical Measurements*; Glazebrook and Shaw's *Practical Physics*; Stewart and Gee's *Practical Physics*; Ayrton's *Practical Electricity*; Kempe's *Handbook of Electrical Testing*; Everett's *Units and Physical Constants*, etc.

The successful prosecution of this course requires practical facility in the application of the Mathematics and Physics of the previous years, the lack of which may be made a reason for exclusion from the course.

[NOTE—Members of the Junior Class, who during any part of Sophomore year were in either the 1st or 2d division, and others who are specially recommended by their instructors in Sophomore Mathematics, may choose either of the courses 102 or 103; they may also, if they desire, take in addition, course 101, or course 100 for laboratory work, or both. Other Juniors are required to take course 103.]

Professor E. S. DANA :—

101 *Physics*. [Juniors.] 1 hr. both terms.

A special course, in which the subject of Sound is taken up in the first term, and that of Light in the second term.

102 *Physics*. [Juniors.] 2 hrs. both terms.

A special course devoted to the subjects of Heat and Electricity. The nature, laws, and phenomena of Heat are discussed through the first term, and during the second term the subjects of Electricity and Magnetism are treated in considerable detail.

Dr. WHITMORE :—

103 *Physics*. [Juniors.] 2 hrs. both terms.

A general and rather elementary course, taking up in succession the subjects of Heat, Sound, Light, and Electricity.

## Professor GOOCH :—

[In Courses 104 to 107 two hours in the laboratory constitute a single exercise and count as the equivalent of a single hour in the elective scheme. In all a special fee to cover the cost of materials used is charged. Courses 108, 109, 110, with Course 104, constitute a connected and continuous line of study in Biology, extending through the Junior and Senior years.]

104 *Experimental Inorganic Chemistry.*

3 exercises both terms.

Practical laboratory work, lectures, and written exercises. An introduction to elementary chemical theory, the use of symbols and formulae, and the descriptive study of the elements and their compounds. This course is preliminary to the other courses in Chemistry and to the course in Biology.

105 *Experimental Organic Chemistry.* 3 exercises both terms.

An introduction to the study of the compounds of carbon. Laboratory work with lectures. Open only to those who have previously taken course 104.

106 *Analytical Chemistry (first course).*

3 exercises both terms.

Laboratory practice in the ordinary processes of qualitative analysis, with lectures. Open to those who have taken course 104.

107 *Analytical Chemistry (second course).*

3 exercises both terms.

Laboratory practice in the use of the simpler methods of volumetric and gravimetric quantitative analysis. Open to those who take also course 106, or have taken it previously.

## Professor CHITTENDEN :—

108 *Physiology.*

[Juniors.] 1 hr. both terms.

Huxley's Lessons in Elementary Physiology, with occasional lectures and illustrative experiments. This course is limited to those who take course 104, and is open only to those intending to take courses 110 and 109 of Senior year.

109 *Physiological Chemistry.* [Seniors.] 4 hrs. 2d term.

Four exercises a week, of a minimum of two hours each, in the laboratory of physiological chemistry. This forms a continuation of course 110 and is open only to those who have taken courses 104 and 108 in Junior year. The time is devoted mainly to a study of the chemistry of the connective, contractile and nerve tissues, of the chemical processes of salivary, gastric, and pancreatic digestions, and so far as the time allows, of other subjects connected with the physiology of nutrition and the chemistry of the excretions.

A short course of lectures by Professor S. I. Smith on Embryology, and a somewhat longer one by Professor Chittenden on Experimental Toxicology, are also open to students in the above course.

A laboratory fee is charged for courses 109 and 110. The student in addition must bear the expense of gas, flasks, etc., which should not exceed ten dollars.

Professor S. I. SMITH :—

110 *Elementary Anatomy and General Biology.*

[Seniors.] 4 hrs. 1st term.

Four exercises, of a minimum of two hours each. Laboratory work and informal lectures. The time is devoted principally to dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the radiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations. Open only to those who have taken courses 104 and 108 in Junior year, and to be followed by course 109, 2d term.

## IX. MATHEMATICS

Professor NEWTON :—

111 *Calculus.* 2 hrs. both terms.112 *Integral Calculus and Mechanics.* [Sen.] 3 hrs. both terms.

Mean values and probability; differential equations; analytical statics and dynamics. Open only to those who have taken course 111.

- 113 *Shooting Stars and Meteors.* 1 hr. both terms.

The mathematical theories of these bodies, and the treatment of the observations of them. Persons selecting this course are expected to make observations on shooting stars in specified hours during the summer vacation and the first term. These observations will be made use of in the course of instruction.

Professor GIBBS :—

- 114 *Vector Analysis.* [Seniors.] 2 hrs. 1st term.

Elementary course, in which the simpler problems of geometry, kinematics, and mechanics are treated by vector methods. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's.

- 115 *Vector Analysis.* [Seniors.] 2 hrs. 2d term.

Advanced course, including differentiation with respect to position in space, the theory of the potential and allied functions, and that of linear vector functions. This course is especially designed for an introduction to the study of mathematical physics, and is open only to those who have taken the preceding.

- 116 *Elliptic and parabolic motion with computation of Orbits.*

[Seniors.] 2 hrs. both terms.

Vector methods are used, and the course is open only to those who take course 114.

Professor PHILLIPS :—

- 117 *Analytical Geometry.* 2 hrs. both terms.

An extension of the course in the plane and solid Analytical Geometry of Sophomore year including the use of determinants and trilinear coördinates ; methods of tracing algebraic and transcendental curves, study of machines for tracing curves and of models of mathematical surfaces.

Assistant Professor BEEBE :—

- 118 *Surveying.* 2 hrs. both terms.

*Field Work :* 1st term : Land surveying ; use of chain, compass, and surveyor's transit ; construction of verniers and determination of instrumental errors. 2d term : Leveling and Topography ; use of surveyor's level and plane table ; determination of grade lines, contour, cut and fill.



*Office Work*: during the winter; platting surveys from field notes; map drawing, plane and topographical; shading, lettering, and enlargement of maps; calculations of areas, use of traverse tables.

*Recitations* during the year from Gillespie's or Johnson's Surveying.

119 *Practical Astronomy.* 2 hrs. to Feb. 15th.

Observatory work with astronomical transit and chronograph for determination of sidereal and standard time; and with sextant and theodolite for determination of latitude and azimuth. Numerical computations for reduction of observations. Recitations from Loomis's Practical Astronomy. Open only to those who have taken course 118.

120 *Geodesy.* 2 hrs. from Feb. 15th.

Measurements and computations for a secondary triangulation from a base line of the U. S. Coast Survey; reductions to center; distribution of errors; measurement of a base of verification. Open only to those who have taken course 118.

121 *Elements of Astronomy.* 1 hr. both terms.

The course pursued is essentially that presented in the abridged edition of Young's Astronomy. Facilities are given for the study of the constellations and the use of the telescope.

122 *Descriptive Astronomy (Advanced).* 1 hr. both terms.

Young's General Astronomy; Clerke's History of Astronomy. Open only to those who have taken course 121.

Mr. DUTCHER:—

123 *History of Mathematics.* 1 hr. 1st term.

Rapid review of the development of mathematical ideas from Egyptian and Early Greek down to modern times. Ball's History of Mathematics, with supplementary work in investigation.

124 *Elementary Geometry (Modern).* 2 hrs. 1st term.

Properties of the point, line, and circle, by modern methods. Mean Position; Inversion; Pole and Polar; Radical Axis; Duality; Harmonic and Anharmonic Division; Involution.

125 *Modern Geometry.* 2 hrs. 2d term.

Projective properties of the point, line, and conic. Cremona's Projective Geometry.

## X. MUSIC

## Professor STÖCKEL :—

- 126 *Harmony.* 2 hrs. both terms.

Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody. This course meets but *once* a week in a recitation of 2 hours.

- 127 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.

Counterpoint of the I, II, III and IV orders. Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.

- 128 *Forms.* 1 hr. both terms.

Motive, Phrase, Period, Part, Song. Rondo. Sonata. Orchestral Forms.

Lectures are given on the *History of Music, sacred and secular; Aesthetics; Analysis: Oratorio, Opera, Chamber-music, Symphony; Biography: Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.*

Members of any department in the University may be admitted to courses 126, 127, 128. The lectures are open also to friends and scholars of music, who are not matriculated. Admittance to course 126 is without examination. Admittance to course 127, after passing a satisfactory examination in the work of course 126. Admittance to course 128, after passing a satisfactory examination in the work of course 127.

The following statements are added to explain the general aim and scope of the instruction in some of the leading subjects of study.

GREEK—During the first two years, the student reads five or six books of Homer, dramas of Aeschylus, Sophocles, and Euripides, one or two comedies of Aristophanes, selections from the history of Herodotus, one or more orations of Demosthenes, Isocrates, or Lysias, the Apology or some dialogue of Plato; occasionally, the Symposium of Xenophon or selected dialogues of Lucian. These works are selected with a view to making the student familiar with the leading branches of Greek literature, and the most interesting phases of Greek life and thought. The most important grammatical principles are reviewed in Freshman year; in Sophomore year, grammatical questions are discussed rarely, except as they are necessary for the interpretation and

illustration of the author's meaning. In reading the works of the poets, less attention is paid to linguistic and grammatical points than to their literary quality, to the structure of the poems, to poetic words, forms, arrangement of words, rhythm, and constructions; but the growth and development of the language are discussed as well as the development of the literature. In reading the orators and historians, the connection of thought and of events is made prominent. Greek prose composition is practiced so far only as to aid the student in reading Greek authors, and to quicken his perception of nice distinction in the order and choice of words and construction.

In the optional courses of the Junior and Senior years, the student has the opportunity of reading the works of the lyric poets, other Greek dramas, and other dialogues of Plato, parts of Aristotle (his *Politics* and *Ethics*), and the idyls of Theocritus; as well as of studying Greek inscriptions, and of doing more critical work on the Homeric poems than is suited to the first College year; and of learning the Modern Greek language. The history of Greek philosophy is studied. Students may also attend Professor Hoppin's fully illustrated lectures on Greek art, in the Art School.

LATIN is continued as a required study till the close of the Sophomore year, when it is intended that the student shall have gained clear conceptions of the genius of the language and its relations to other ancient and to modern tongues, a good knowledge of the characteristics of Latin literature and the essential facts of Roman history, and some appreciation of the position of Rome in the history of civilization. That subsequent reading of the language may be more easy and more exact, due attention is given in the early part of the course to forms, constructions, and idioms. From term to term the study of the literature is made more prominent, and the particular texts are treated as means for the study of the public and private life of the Romans. Instruction is given mainly by recitations, but such work is supplemented by occasional lectures by the instructors and by conferences on papers presented by the pupils. In connection with the minute study of the authors, considerable time is given to oral and written reading at sight, and to composition in Latin.

For Juniors and Seniors who desire to continue their Latin studies, parallel courses are offered by different instructors, with different ends in view and by different methods. The characteristic of a course may be, *e. g.*, literature, or history, or philology, or antiquities, or the speaking and writing of Latin; and the methods of preparation and the classroom treatment vary accordingly. Topics suggested by the nature of the courses, or by individual tastes and intentions, are assigned to students, and papers thus prepared are discussed before the class. Lectures and

the rapid reading of large amounts of texts are more frequent than in the prescribed courses. The connection of Latin with English is emphasized, and written translations are from time to time required and criticized with reference both to their faithful reproduction of the Latin thought and their idiomatic English. German annotated editions are often used, not only for their intrinsic helpfulness, but also to encourage the practical use of that language. Students who give evidence of unusual capacity and attainments may be admitted to membership of graduate classes.

**MATHEMATICS**—In Geometry the exercises consist in recitations from the text-book, the original demonstration of theorems, and applications of the principles to the solution of numerical problems.

After the student has gained facility in the use of trigonometrical tables, the principles of Plane Trigonometry are applied to the problems of Mensuration, Surveying, and Navigation, and likewise those of Spherical Trigonometry to the elementary problems relating to the celestial sphere.

In Mechanics, the elementary principles of Kinematics, Kinetics, and Statics, in reference to solid bodies, are presented with practical applications.

In Algebra the elementary principles of the theory of equations are illustrated graphically, and the student is exercised in the numerical solution of equations of the higher degrees and the graphical representation of the relations of quantities.

In Analytical Geometry the student is carried through the elementary properties of the lines and surfaces of the second degree, and is introduced to the theory of map-projection.

These are studies of the Freshman and Sophomore years, and together with the elements of Astronomy which are pursued in Sophomore year, are regarded as essential parts of a liberal education.

In the Junior and Senior years opportunity is given in the elective courses to obtain a wider knowledge of Analytical Geometry and Trigonometry with their applications to Geodesy and Astronomy. A course is provided in Junior year in Differential and Integral Calculus, designed for such as expect to make a serious study of any department of pure or applied mathematics.

In Senior year advanced subjects in the Calculus and the elements of Analytical Mechanics form one line of study.

An elementary and an advanced course are provided in what is called Vector Analysis. The object of these courses is to introduce the student to the methods of multiple algebra in geometry, mechanics, and physics. The matter taught is not entirely unlike that usually given

in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's. The elementary course is confined to the simplest algebraic relations of vectors. The advanced course includes differentiations with respect to position in space, and the theory of linear vector functions.

Students who show special aptitudes are exercised in the working up of subjects which require the use of the library and more prolonged investigation than the daily exercises of the class-room. Such work begins in Freshman year. There is a considerable collection of models which are used to assist the imagination in the various branches of study.

ENGLISH—The required study of English literature occupies three hours a week through one-third of Freshman year and one-half of Sophomore year. In Freshman year Brooke's Primer is read, to give the student a view of the whole field; three plays of Shakespeare and the minor English poems of Milton are read in the class-room. In Sophomore year especial attention is given to training in methods of reading,—to promote quickness and accuracy of perception in respect to thought and style.

One hour each week through Sophomore year is devoted to English Composition. The student prepares himself previously to write on some one of various assigned subjects, but his essay is composed in the class-room. The pieces are read by an Instructor in English Composition, and are returned with brief written criticisms; there are also occasional lectures on the treatment of subjects and on expression. Two instructors have hours reserved every day when they may be consulted personally by any student.

A course in Old and Middle English is offered to Juniors and Seniors, and is intended as an introduction to a study of the origins of our language and literature.

A brief survey of the whole field of the History of English Literature is attempted in the Autumn term, the aim being to give such a view of the mutual relations of the principal authors and epochs as may enable the student to plan courses of English reading and study with intelligence and judgment. Instruction in this course is given by means of Brooke's Primer of English Literature, supplemented by topical study pursued through the medium of papers prepared by the members of the class, which, after being read aloud, are made the subject of discussion. The course in English Essayists is devoted not only to familiarizing the student with the thought of the author read, but also to some examination of the qualities of English prose style as exemplified by these authors.

Opportunity is afforded for the critical study of a number of individual authors in as many different courses. Among those studied during the present year are Chaucer, two Elizabethans, Bacon and Shakespeare, and two eminent contemporaries of this century, Tennyson and Browning. Stress is laid in these courses upon the distinctive personality and workmanship of the writer in question, but an endeavor is also made to promote the conception of literary masterpieces as wholes, as works of art subject to the laws of inner unity and harmony, and not merely as texts for verbal study or collateral illustration.

A course in American Literature is intended to introduce the student to the history of that subject, and to acquaint him with some of the representative work of the chief American authors, especially those of the present century.

Sometime during the second term Professor McLaughlin will give a course of lectures open to the University on topics connected with the literature of the middle ages.

GERMAN—The student may pursue the study of German during each of the four years of his College course, if he so elect. While the study may be begun at the opening of any of the four years, it is strongly urged that the elementary work be done as early in the College course as possible, in case the student proposes to take up the language at all.

The courses of work for the successive years may be outlined as follows. During the first year the work consists of German grammar, translation of easy English phrases, sentences, and stories into German, and of easy German prose into English. Constant sight-translation is used as a means for developing and strengthening the student's vocabulary and for freeing him from dependence upon the lexicon and from the word-by-word methods which its use encourages. Especial care also is devoted to pronunciation. The work of the second year continues and extends that of the first year, taking up the translation of German prose, narrative, critical, and historical composition, and sight-translation. Throughout the two years the aim in reading German is to cover as much ground as possible—from 500 pages upwards—in the belief that thereby the student will acquire more command of the language than when a smaller amount is read with rigid attention to grammatical details. It is expected that at the end of the second year the student will be able to use the language in his work in other branches of study. Those, therefore, who are studying German solely with this end in view may perhaps abandon the language at this point; but no student should begin the language unless he expects to devote at least two years to its study.

For the remaining years the elective courses vary from year to year; but opportunity is given for the critical study of some of the master-

pieces of German literature and for the study of periods in its history. Those who so elect may also have opportunity to take up the earlier German literature and to study the historic development of the grammar of the language.

German readings are given by the instructors, outside of the regular College work, and advanced classes in composition are formed, where German alone is spoken. German is constantly read aloud in the class-room, and all efforts, both in the class-room and in private, are made to improve the student's pronunciation and to help him to acquire some facility in expressing his ideas in German. But it is not a leading aim in the instruction in German to enable the student to converse in that language. Training in the ordinary conversational idiom may be had more profitably elsewhere and cannot form any considerable part of the class-room work. The student may acquire the language as a tool for use in other departments of study, and may come in contact with the best works of German literature, studying their form and contents, and the lives and environment of their authors; fluency in conversation must be acquired where the conditions are more fitted to the object which they are to effect.

**ROMANCE LANGUAGES**—In his Junior year the student who has satisfactorily passed the Sophomore examination in French can elect, according to his relative proficiency, one or two of the following courses: *a*, a course conducted entirely in French and consisting of the study of some portion of French history; *b*, a course of systematic readings and criticisms, covering a period of modern French literature; *c*, a course in syntax and composition. Elementary courses in Spanish and Italian are likewise offered to him.

In his Senior year, he can be admitted to the following graduate courses: *a*, in French, Spanish, and Italian literatures; *b*, in old French and Provençal.

In every case, the selections must be made with the advice and approval of the department.

**PHYSICS**—The course in Physics extends through a year and a half with two exercises weekly. The general design of the course is to make the student acquainted with the fundamental principles of the science, to enable him to understand something of the methods of experiment and reasoning by which physical laws have been established, and to give him an insight into the degree of accuracy demanded in physical work. The subject of Electricity is treated at somewhat greater length than the other branches, and is fully illustrated by experimental lectures; in this direction the recent equipment of the Sloane

Laboratory makes the department especially strong. During the Senior year there is an opportunity for students desiring to avail themselves of it, to go forward with practical laboratory work, as is described in the list of elective courses.

**CHEMISTRY**—The study of this subject is optional. Four courses in experimental descriptive chemistry (inorganic and organic) and analytical chemistry are open to undergraduates. Instruction in these courses is given in practical exercises in the laboratory and demonstrations in the lecture-room. Frequent examinations to emphasize the more essential points, as well as to test the progress of the student, are an important feature of the plan of work. It is the aim of these courses to teach the facts and principles of chemistry by the inductive and experimental method. Students sufficiently advanced have the opportunity to undertake the solution of problems demanding original thought and investigation.

**GEOLOGY**—The instruction in this department is designed primarily to acquaint the student with the fundamental facts of the constitution of the earth, the arrangement of its parts, and the materials and forces which have been and are the basis of its history. As far as practicable the class-room instruction will be supplemented by the use of specimens such as are found in the museums or such as make up the geological features of the vicinity of New Haven. The facts and phenomena of the science will be also used as an introduction to the methods of making observations, of deriving from them correct scientific notions, and in general as a means of the exercise and development of the faculties of inductive reasoning. Students prepared for the work will be encouraged to make special investigations in the lines of historical geology and the history of organisms for which the facilities are ample, and in other special problems of structural geology well exhibited in and about New Haven city.

**POLITICAL SCIENCE AND LAW**—An elementary course in Economics is provided which treats not merely the general principles of the science, but some of the most important practical applications in Finance and Legislation. Walker's Political Economy is used as a text-book, and is supplemented by constant lectures and discussions. Those who take Economics in Junior year have an opportunity in Senior year to become acquainted with the history of the science and the controversies now going on in it, and to study more thoroughly special topics. In the course on Anthropology they are also offered an opportunity to become



acquainted with the new sciences whose investigations are so important for the whole field of social science.

The course in Law treats of municipal and international law as parts of a liberal education. The object is to study civil institutions, both in their theory and in their positive form. The instruction is elementary, dealing with the fundamental facts and principles which underlie the civil polity of the American State, and is intended to give the student a correct knowledge of such essential facts about the life of the State and its accepted doctrines, as every educated man should possess, as well as to lead up to the professional study of law.

**MENTAL AND MORAL SCIENCE, AND PHILOSOPHY**—The courses in this branch of study begin in Junior year, and continue until graduation. During Junior year, three hours per week of class-room work in Logic, Psychology, Ethics, and the Evidences of Religion, and during Senior year two hours per week of class-room work in Philosophy, are required of every student; the remainder of the work in these and kindred subjects is elective.

**LOGIC**—This is a required course beginning in the Junior year. It aims at a thorough knowledge of the principles of deductive and inductive reasoning. In deductive Logic special attention is given to an analysis of the syllogism as well as to a study of its functions and logical value. Oral and written discussions of examples of deductive argument constitute a considerable portion of the work of the class. In inductive Logic the problem, grounds, and principles of induction are discussed. A great deal of attention is given to familiarizing the students with the principles and methods of scientific investigation. Essays on observation, experiment, classification, hypothesis, etc., are required. The work in Logic includes an examination of recent logical theories.

The course in Deductive Logic is based on Jevons-Hill's *Elements of Logic*; in Inductive Logic on Fowler's *Deductive Logic*.

**PSYCHOLOGY**—Required work in this subject begins in Junior year and consists of three exercises a week, continued through rather more than half the college year. Although the course is taught with constant use of a text-book, upon which recitations are exacted, considerable time from the first is taken by the teacher in oral instructions, critical or supplementary of the text. Attention is called to the most recent advances in experimental psychology, and to the educational bearings of the subjects treated. The most important of the older and newer works on psychology are placed in the University Reference Library for the use of students who are urged to do side reading in connection with the class-

room work. The course in Physiological Psychology extends through the entire year and is taught by lectures and recitations ; it is illustrated by constant use of models, charts, histological preparations, apparatus for mixing color-sensations, etc. It is designed to go briefly over the whole ground of the modern experimental and physiological study of mental phenomena ; especially as regards reflex and automatic cerebral action, the localizing of cerebral function, the quality and quantity of sensation, psychometry, and the physical basis of the higher faculties. It may be elected either in the Junior year as preparatory, or in the Senior year as supplementary, to the required course in introspective Psychology. The newly equipped laboratory furnishes facilities for performing the experiments before the class.

**HISTORY OF PHILOSOPHY**—The study of this subject is confined to the Senior year. In the study of the History of Greek Philosophy the principal emphasis is laid upon Plato and Aristotle, and upon the post-Aristotelian Schools, as illustrating the permanent and most interesting problems of Philosophy.

The course in Modern Philosophy extends through the whole of the Senior year. The subject is taught both by recitations from the textbook, with accompanying remarks from the teacher, and by lectures. Effort is made to secure from each pupil the careful reading of at least one work of some prominent philosopher of the period considered in the class-room. Special emphasis is laid upon the philosophy of Kant. It is a constant aim to trace the development of modern speculative thought so as to throw light upon the principal questions in debate among present writers in philosophy.

**PHILOSOPHY**—In addition to the study of Philosophy as connected with the problems of rational Psychology, and as illustrated and enforced by the history of the development of Philosophy, the works of one or more of the leading authors are read and discussed, with such students as take the elective courses opened for this purpose. In this way the more general studies in Metaphysics and Ethics are supplemented by special information regarding selected subjects and writers.

**MORAL SCIENCE**, as a study, is intimately connected with the instruction in Psychology and Philosophy, as its foundations are discovered in the constitution of the human soul, and its method and fundamental relations are justified and enforced by those principles which are essential to all scientific thinking. In the department of Moral Science and of Practical Ethics, a somewhat thorough course is required of the entire Junior class, as an essential element of a thorough education and an important condition for practical usefulness. This general course is

supplemented by special classes in scientific and practical Ethics, and particularly in the history and criticism of ethical theories, which are maintained through the year.

### SPECIAL HONORS

Special Honors are conferred at the end of Senior year.

One-year and two-year honors may be taken in the following groups of studies :

(1). Philosophy. (2). History. (3). Political Science and Law. (4). English. (5). Ancient Languages. (6). Modern Languages (exclusive of English). (7). Natural and Physical Science. (8). Mathematics.

A candidate for a one-year honor must pursue with distinction in his Senior year, and a candidate for a two-year honor in his Junior and Senior years, courses (whether prescribed or elective) amounting to an average of at least six hours per week in one of the specified groups. For a two-year honor the work must be so distributed that an average of at least four hours per week is taken in Junior year.

In History, courses *taken in Junior Year*, can be counted as part of the work for two-year honors in Political Science and *vice versa*.

In Classics, Modern Languages (exclusive of English), and Mathematics, two-year honors will not be given unless the work in those subjects amounts to four hours per week in each year.

Students taking a sufficient number of hours in any group may by that fact be considered as candidates for honors in that group.

A candidate's whole work in any group, though it may be more than the minimum requirement for an honor, will be reckoned as in competition for the honor.

A candidate for either honor must present a meritorious thesis before June 1, of his Senior year.

[In the department of Modern Languages, elementary German will not be reckoned for honors. In the department of Mathematics, no student will be considered a candidate for honors, unless he has taken the Calculus.]

## TERMS AND VACATIONS

THE PUBLIC COMMENCEMENT is held on the last Wednesday in June. The first term begins thirteen weeks from the day after Commencement-day and continues twelve weeks; the second term begins on Tuesday after the first Thursday in January and continues until Commencement-day, with a Spring Recess—of eight days—including Easter. (See Calendar, p. 6.) The exercises of each term begin with prayers in the Chapel.

## PUBLIC WORSHIP

PRAYERS are attended in the Battell Chapel, with reading of the Scriptures and singing, every week-day at 8.10 a. m., at which service the attendance of the students is required.

PUBLIC WORSHIP is held in the Chapel on Sundays, at which all the students are required to attend, except such as have special permission to attend the worship of other denominations, to which their parents belong. Such permission can be obtained only on presenting to the Dean a written request therefor from the parent or guardian.

THE YALE YOUNG MEN'S CHRISTIAN ASSOCIATION has a membership of about nine hundred, representing all departments of the University, and has its headquarters in Dwight Hall, which was erected in 1886, through the generosity of Mr. Elbert B. Monroe of Southport, Connecticut. This is a fine, stone building, situated on the college square, and admirably adapted to be the center of the social, religious life of the University; it contains a convenient reading room, a carefully selected library, a large hall for general religious services, and separate rooms for the prayer-meetings of the various classes.

The Dwight-Hall lecture course, the devotional meetings, the classes for Bible study, and the mission-work carried on by the students, have come to be prominent features of Yale life.

## LIBRARIES AND READING ROOMS

The Library of the University, containing about 160,000 volumes, is open every week-day to all the students for consultation and for the drawing of books; in a separate part of the building is the Linonian and Brothers Library, a collection of over 30,000 volumes in general literature specially selected for the use of the undergraduate students.

The College Reading Room, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening without charge. There is also a reading room and a select library (partly for circulation and partly for reference) in Dwight Hall.

## GYMNASIUM

The Gymnasium is designed to provide all students of the University with opportunities not only for general exercises, but also for means of caring for the body with a knowledge of hygienic laws, as well as for specific training in view of any physical defects that may be remedied by rational superintendence.

The Department is under the supervision of two Directors, both of whom are regularly educated physicians.

The members of the different classes during a part of the year take exercises in the various forms of gymnastics under the instruction of the Directors, and any student may enter the classes in general gymnastics. An instructor is always present in the main exercise-hall to give individual or class work. All students requiring such care are assigned exercises suited to their special needs.

The appointments of the Gymnasium include a complete Turkish bath, marble swimming pool, marble tubs, bowling-alleys, rowing-tanks, free showers, separate room for boxing, fencing, wrestling and manly sports, a locker room, and the main exercise-hall, which offers a clear floor-space of 10,000 square feet, and is from 22 to 56 feet in height.

The Gymnasium is open from 9:30 in the morning until 10 at night. Graduate and undergraduate students are entitled to the use of the tub and Turkish baths upon the payment of a small fee.

A thorough physical examination and record of each student is made yearly, and a record of these results is kept as a basis of advice as to exercise and regimen. An examination of these records shows that the standard of health of the average student improves during his college course.

The gymnastic training is designed to be progressive from year to year.

Members of other Departments of the University may avail themselves of the use of the Gymnasium, including advice from the directors, use of apparatus, the Turkish baths, showers, bowling-alleys, etc., on the payment of a small fee.

The new Gymnasium, erected by graduates for the use of the University, was opened to students on October 1st, 1892. The building is the most complete of its kind to be found anywhere, and should add greatly to the general health of the students.

The arrangement of the building is in general as follows : the location is on the north side of Elm street, nearly opposite the Peabody Museum, and the front is 138 feet, while the depth is about 86 feet. The entrance is by an archway at the east end, which leads through the building to a large lot in the rear that affords room for outdoor exercises, such as throwing the hammer, putting the shot, hurdling, pole-vaulting, jumping, etc.

The basement is reached by an entrance from the lot, and contains an engine-room, laundry, a bath-room with twelve tubs, each provided with a shower and douche, toilet-rooms, a room with two bowling-alleys, and a room for free exercises and massage.

The first floor contains the spacious entrance-hall, or vestibule, a dressing-room for athletes, with bath and toilet

rooms for their special use, a complete equipment of lockers, baths, a swimming-pool (23 x 50 feet), and two rowing-tanks large enough for eight-oar crews.

The second floor is occupied by offices, club rooms, and a large dressing-room with shower-baths and toilet-rooms adjoining. This room now has over one thousand ventilated lockers, with space for a thousand more whenever they may be needed.

### EXPENSES

The Treasurer's bills are made out and delivered to the students, or (*request to that effect being made*) mailed to the parent or guardian, three times a year, viz: at the beginning of each term or half term, at which time they are payable. If not paid before the end of the month, following the month in which they are issued, the student will not be permitted to attend recitations until his bill shall have been paid, and in the allotment of college rooms will not be permitted to retain or choose a room. Drafts on New York, Boston and Philadelphia are received at par.

The annual charges are: for tuition one hundred and twenty-five dollars, and for incidentals (including ordinary repairs, expenses of public rooms, gymnasium, libraries, and reading room) thirty dollars. Of this amount fifty-five dollars are payable at the beginning of the first term, and fifty dollars at the beginning, and again at the middle of the second term. An additional charge of eighteen dollars is made in the last bill of the Senior year, to cover expenses of graduation.

**ABSENCE ON LEAVE**—A student who is absent from College on account of sickness, or for any other cause, and retains his place in his class, pays full tuition during such absence; such payment is required before the student can be admitted to examination.

**BOARD** is obtained at prices varying from three and a half to eight dollars a week. The average price is under five dollars.

THE YALE DINING HALL, adjacent to the College square, is under the direct control of the University and furnishes board at cost (approximating \$4.00 per week). The Hall contains seats for 450, and is open to students of the Academic and Scientific Departments. A bond of \$500 is required by the Treasurer of the University for each student admitted, and the price of board is charged on the regular term-bill. Application for seats at the table must be made to the steward, Mr. Vertner Kenerson.

ROOMS—There are in the College buildings nearly three hundred rooms occupied by students, at prices varying (according to location) from fifty cents to eight dollars per week, payable each term or half-term in advance. These rooms are not furnished, and the rates charged do not include heat or light.

Farnam Hall (built in 1869-70) is named in commemoration of Henry Farnam, Esq., of New Haven, who bore the chief part of the expense of its erection; Durfee Hall (built in 1870-71) commemorates in like manner the generosity of Mr. Bradford M. C. Durfee, of Fall River, Mass.; Lawrance Hall (built in 1885-86) owes its name to a gift for this purpose from Mrs. Francis C. Lawrance, of New York City, in memory of her son, Thomas Garner Lawrance, of the Class of 1884, who died during his Senior year in College; and Welch Hall, completed in 1892, is the gift of Pierce N. Welch, Esq. (Yale College 1862), of New Haven, in memory of his father, the Hon. Harmanus M. Welch, of this city, who died in 1889.

Students living out of College are not allowed to room in any building in which a family does not reside, except by special permission of the Faculty.

Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another academic year, by making application in writing to the locating officer, on or before Saturday, May 27, 1893. Rooms not reserved will then be offered to the classes in order: choices will be allotted to



the Junior class on Tuesday, May 30, and to the Sophomore class on Thursday, June 1.

PRICES PER WEEK OF ROOMS IN COLLEGE FOR 1892-93

When a room is occupied by two persons, each occupant will be charged with one-half the price named in this schedule. The prices given for Welch Hall include steam-heat.

- \$0.50.—66, 67, 82 North Middle; 188, 189 Old Chapel.  
\$0.75.—2, 3, 18 South; 33, 49 South Middle; 65, 68, 81, 84 North Middle; 98, 99, 114 North.  
\$1.00.—1, 4, 17, 20 South; 34, 50 South Middle; 79, 95 North Middle; 97, 100, 113, 116 North; 190, 191 Old Chapel.  
\$1.25.—46, 47, 62, 63 South Middle; 71, 75, 78, 87, 91, 94 North Middle.  
\$1.50.—14, 15, 30, 31 South; 38, 39, 43, 54, 55, 59 South Middle; 74, 77, 80, 90, 93, 96 North Middle.  
\$1.75.—7, 11, 22, 23, 26, 27, 29, 32 South; 45, 48, 61, 64 South Middle; 72, 76, 88, 92 North Middle; 103, 106, 107, 110, 111, 119, 122, 123, 126, 127 North.  
\$2.00.—6, 10, 13, 16, 24, 25, 28 South; 37, 40, 41, 44, 53, 56, 57, 60 South Middle; 69, 73, 85 North Middle; 101, 104, 105, 108, 109, 112, 125, 128 North; 133, 137, 141, 160, 167, 175 Farnam; 186, 187, 192, 193 Old Chapel.  
\$2.50.—8, 9, 12 South; 120, 124 North.  
\$3.00.—182, 183 Lyceum.  
\$3.50.—142, 143, 158, 159, 161, 162, 176, 177 Farnam; 250, 251, 260, 261, 270, 271, 281 Lawrance.  
\$4.00.—130, 131, 138, 139, 144, 145, 146, 147, 154, 156, 157, 164, 165, 172, 173 Farnam; 180 Lyceum.  
\$4.50.—134, 135, 140, 148, 149, 151, 152, 168, 169, 174 Farnam; 208, 215, 216, 223, 224, 231, 232, 239 Durfee; 248, 249, 258, 259, 268, 269, 279 Lawrance.  
\$5.00.—129, 163 Farnam; 202, 209, 210, 217, 218, 225, 226, 233 Durfee; 241, 242, 246, 247, 252, 253, 256, 257, 262, 263, 266, 272, 273, 277, 282 Lawrance; 296, 311, 312, 327 Welch.  
\$5.50.—206, 214, 221, 222, 229, 230, 237 Durfee.  
\$6.00.—132, 166 Farnam; 204, 211, 212, 219, 220, 227, 228, 235 Durfee; 245, 254, 255, 264, 265, 274 Lawrance; 284, 295, 297, 298, 299, 300, 301, 302, 313, 314, 315, 328, 329, 330 Welch.  
\$7.00.—178, 179 Lyceum; 201, 203, 234, 238 Durfee; 280 Lawrance; 283, 285, 286, 288, 292, 303, 304, 308, 316, 317, 318, 319, 323 Welch.  
\$8.00.—278 Lawrance; 287, 289, 290, 291, 293, 305, 306, 309, 310, 322, 326 Welch.  
\$8.50.—294, 320, 324 Welch.  
\$9.00.—321, 325 Welch.

The subjoined table gives near estimates of the ordinary annual expenses in College, omitting clothing and vacation charges.

|  | Lowest       | General<br>Average | Very<br>Liberal |
|--|--------------|--------------------|-----------------|
| Treasurer's bill, tuition,                               | \$125        | \$125              | \$125           |
| " " incidentals,   | 30           | 30                 | 30              |
| Rent and care of half-room in College,                   | 15           | 75                 | 125             |
| Board, 36 weeks,   | 125          | 175                | 288             |
| Furniture, average of half-room for 4 years,             | 10           | 20                 | 35              |
| Fuel (steam-heat) and light, for half-room,              | 15           | 20                 | 28              |
| Washing,   | 15           | 25                 | 42              |
| Text-books and stationery,                               | 10           | 25                 | 40              |
| Subscriptions (to Societies, Sports, Periodicals, etc.), |              | 20                 | 100             |
| Private servant, for special care of room,               |              |                    | 25              |
| Sundries,  | 5            | 75                 | 187             |
| Total,   | <u>\$350</u> | <u>\$591</u>       | <u>\$1025</u>   |

## BENEFICIARY AID

The sum of twenty thousand dollars and upwards, derived mainly from permanent charitable funds, is annually applied by the Corporation for the relief of students who need pecuniary aid, especially of those preparing for the Christian ministry. In this amount are included the income of the **LANGDON FUND**, of four thousand dollars, bequeathed in 1835 by Solomon Langdon, of Farmington, Connecticut, and a portion of the income of the **ELLSWORTH FUND**, now over ninety-five thousand dollars, received since 1858 from the estate of the Hon. Henry L. Ellsworth (Yale College 1810); both these funds are used for the support of students intending to enter the ministry. There is also a **LOAN FUND**, for the benefit of needy students, which has been constituted from repayments made to the treasury by former students who have received aid during the College course. The College has also a considerable number of scholarship funds, each yielding one hundred and fifteen dollars a year, the income of which is appropriated to worthy applicants. Those needing aid

should apply to the President before November 1st in each year of the College course. No assignments from these funds are made before admission to College.

Assistance will be withdrawn from students who incur serious College censure, or who fail to maintain a reputable scholarship.

THE MORGAN FUND, bequeathed by the late Henry T. Morgan, of New York City, has been set apart by the Corporation, with the provision that the income shall be divided into scholarships (at present thirty-seven in number, yielding one hundred and fifteen dollars each), to be assigned by the Faculty for the benefit of indigent and deserving students.

THE MARETT FUND, amounting to over one hundred and thirty-two thousand dollars, which was established by the will of Philip Marett, Esq., of New Haven, in 1869, and was received in 1889, has been appropriated for beneficiary scholarships, in aid of needy and deserving students.

THE CHRISTMAN FUND, amounting to over twenty-two thousand dollars, bequeathed by Joseph A. Christman (Yale College 1857), of New York City, who died in 1888, is devoted to the support of poor and meritorious students.

THE HARMER FOUNDATION OF SCHOLARSHIPS, the proceeds of a bequest in 1854 from Thomas Harmer Johns (Yale College 1818), of Canandaigua, N. Y., comprises five scholarships, each yielding at least one hundred dollars a year, to be given to deserving students of small means.

THE LYON SCHOLARSHIP FUND, of forty-four hundred dollars, given in 1868-72 by Mr. Morris W. Lyon (Yale College 1846), of New York City, benefits four scholars, selected for their worth and need by the founder or the Faculty.

THE LUCIUS HOTCHKISS FUND, of ten thousand dollars, the bequest of Lucius Hotchkiss, Esq., of New Haven, in 1881, comprises four scholarships, the income of which is given to indigent and deserving students.

THE LEAVENWORTH SCHOLARSHIP FUND, now amounting to over ten thousand dollars, was established in 1882 by

the late Hon. Elias W. Leavenworth (Yale College 1824), of Syracuse, N. Y., with the primary object of defraying in part the expenses of the education of students of good character and promise, bearing the surname of Leavenworth.

THE HOLMES SCHOLARSHIPS, one in each class in College, founded by Samuel Holmes, Esq., of Montclair, New Jersey, are filled upon the nomination of the Board of Agents of the Silas Bronson Library of Waterbury by students from the towns of Waterbury, Wolcott, Prospect, and Middlebury, Connecticut, who receive each the income of one thousand dollars *per annum*.

There are thirty-four other Scholarship Funds, most of them of one thousand dollars, the income of which may be given to such students as shall be selected by the founders or the Faculty. In this number are included Scholarships named in commemoration of William Allen, Charles Atwater, Mills Bordwell, William S. Charnley, William E. Dodge, Thomas H. and Luther Fuller, Sereno Gaylord, Joel Hawes, John C. Holley, Charles L. Ives, Elisha C. Jones, William A. Macy, John S. Mitchell, Peter Parker, John M. Raymond, John Spaulding, and James M. Whiton.

There are also opportunities for students in need of aid to render service to the College as monitors, etc.; in this way about a thousand dollars is disbursed annually. And in general it may be said that the other means of self-help at the command of students are sufficient to enable many of those who have spare time to provide for the larger part of their College expenses.

By the liberality of Mr. William L. Andrews, of New York City, and as a memorial of his son, Loring W. Andrews, of the class of 1883, a well furnished library has been established, containing text-books and works of reference, to be loaned gratuitously to those students who have need to avoid the expense of purchasing books. Permission to use this library is obtained from the President.

## FELLOWSHIPS AND SCHOLARSHIPS

THE DOUGLAS FELLOWSHIP, with an income of six hundred dollars a year, was founded in 1873, by Mrs. Samuel Miller, of New Haven, and named in memory of her brothers, the Rev. Sutherland Douglas (Y. C. 1822) and George H. Douglas (Y. C. 1828). The incumbent, who must be a recent graduate of this Department, pursuing non-professional studies in New Haven, is elected annually, but no person shall hold the Fellowship for more than three years.

THE SOLDIERS' MEMORIAL FELLOWSHIP, with an annual income of six hundred dollars, was founded in 1875 by Mrs. Theodosia D. Wheeler, of New Haven, in honor of the alumni who fell in battle as Union soldiers, in the war of 1861-1865, and in special remembrance of William Wheeler, of the Class of 1855. The incumbent must be, at the time of his election, a graduate of this Department, of not more than three years' standing. He shall pursue non-professional studies, and may hold the Fellowship for a period not exceeding five years. In selecting the incumbent, the President and Professors are to give preference to one who has shown special proficiency in Greek; and for the further prosecution of Greek study, the Fellow may be allowed to spend a part or the whole of the time of his incumbency in Athens, in connection with the American School of Classical Studies, instead of in New Haven.

THE SILLIMAN FELLOWSHIP, founded in memory of Professor Benjamin Silliman, Professor of Chemistry, Mineralogy, and Geology in Yale College from 1802 until his death in 1864, has an annual income of six hundred dollars, and is awarded to a graduate of this Department who has given evidence of proficiency and promise in some branch of physical science. The incumbent is elected annually, but no person shall hold the Fellowship for more than three years.

THE JOHN. SLOANE FELLOWSHIP in Physics, established in 1889 by the gift of ten thousand dollars from John

Sloane, Esq., of New York City, is awarded annually by the Faculty to a graduate of this Department who has shown marked proficiency in the study of Physics, and gives promise of success in the prosecution and application thereof. The incumbent shall reside in New Haven for at least thirty-six weeks in each academic year, pursuing a course of study in Physics and the related branches of science, and acting as an assistant in the Sloane Physical Laboratory; he may be re-elected, but shall not hold the Fellowship for more than three consecutive years.

THE BERKELEY SCHOLARSHIP, founded in 1733 by the Rev. George Berkeley, Dean of Derry, and afterwards Bishop of Cloyne, Ireland, and yielding over sixty dollars a year, is awarded to the student in each Senior class who passes the best examination (which must be a creditable one) in the Greek Testament (Pauline Epistles), the first book of Thucydides, the first six books of Homer's Iliad, Cicero's Tusculan Questions, Tacitus (except the Annals), and Horace; provided he remain in New Haven as a graduate, one, two, or three years.

THE CLARK SCHOLARSHIP, being the income of a fund of two thousand dollars, given for this purpose by Mr. Sheldon Clark, of Oxford, Connecticut, is awarded in each Senior class to the applicant who has attained the highest rank in the studies of the course; provided he remain in New Haven for one year or two years immediately after graduation, pursuing a course of study (not professional) under the direction of the Faculty.

THE BRISTED SCHOLARSHIP, founded in 1848 by Mr. Charles Astor Bristed (Yale College 1839), of New York City, and yielding about one hundred and twenty dollars a year, is awarded, whenever there is a vacancy, to the student in the Sophomore or Junior class who passes the best examination in the classics and mathematics. The successful candidate receives the annuity (forfeiting one-third in case of non-residence) until the end of the third year after graduation.

THE FOOTE SCHOLARSHIPS, founded in 1872 by a bequest of Harry W. Foote (Yale College 1866), of New Haven, and yielding five hundred dollars a year, are awarded annually to graduates of this Department, selected by the Corporation, who remain in New Haven for one or more years pursuing studies in the graduate courses of the Department of Philosophy and the Arts.

THE LARNED SCHOLARSHIPS, three in number, each having a fund of seven thousand dollars, were founded in 1877 by the bequest of Mrs. Irene Larned, of New Haven, and were augmented in 1888 by the bequest of Mrs. Urania B. Humphrey, of Norfolk, Connecticut. One scholarship is awarded in each Senior class; the incumbent must reside in New Haven, pursuing a course of advanced study under the direction of the Faculty.

THE MACY SCHOLARSHIP, being the income of a fund of ten thousand dollars, derived from a bequest of the Rev. William A. Macy (Yale College 1844), of Shanghai, China, who died in 1859, is awarded, whenever there may be a vacancy, to a recent graduate of distinguished scholarship, who may hold it for a term of three years. He shall reside in New Haven, pursuing a course of non-professional study, and shall at the close of each College year present a meritorious thesis in evidence of his work during the previous year.

THE WOOLSEY SCHOLARSHIPS, each having the income of a fund of one thousand dollars, the gift of President Woolsey, in 1846-48, are awarded in successive years, one to the student in each Freshman class, who passes the best examination in Latin Composition (excellence in which is essential to success), in the Greek of the year, and in the solution of algebraic problems. The successful candidate receives the annuity, during the four years of his College course, provided he maintains a good standing in character and scholarship, and in the Junior year makes himself acquainted with the Differential and Integral Calculus. The student who stands second at this examination receives

for one year the income of the HURLBUT SCHOLARSHIP FUND, of one thousand dollars (established by Henry A. Hurlbut, Esq., of New York City, in 1858-9); and the student who stands third, the income for one year of the THIRD FRESHMAN SCHOLARSHIP FUND, of the same amount, given by Charles M. Runk, Esq., of Allentown, Pennsylvania, in 1864.

THE W. W. DEFOREST SCHOLARSHIP, being the income of a fund of two thousand dollars, bequeathed in 1867 by William Wheeler DeForest, of New York City, is awarded to a student in each Senior class who has attained distinction in the study of French while in College, provided he pursue for the year after graduation a further course of study in the modern languages, especially French, Spanish, Portuguese, or Italian, under the direction of the Faculty.

THE SCOTT HURTT SCHOLARSHIP was established in 1889, in memory of Scott Hurtt, of the class of 1878, Yale College, by his classmates and friends. The income of a fund of five thousand dollars is assigned in June of each year to a member of the Sophomore class, who is selected by the Faculty on the ground of approved scholarship; one half of the income will be paid to the incumbent during his Junior year, and one-half during his Senior year, provided he continues to be in need of this assistance.

THE THOMAS GLASBY WATERMAN FUND, of forty thousand dollars, was received in 1890 from the estate of Thomas G. Waterman (Yale College 1886). The income is given to not more than three scholars, of manly character and limited means, who have distinguished themselves in their studies and give promise of achieving distinction in the line of work which they have chosen; the incumbents are elected annually by the Faculty from the Senior or Junior class, or from graduates of the Department of not more than two years' standing.

THE ALFRED BARNES PALMER SCHOLARSHIP FUND, of five thousand dollars, was given in June, 1892, by the Rev.



Charles Ray Palmer, D.D., in memory of his son, Alfred Barnes Palmer, of the class of 1892, Yale College. The annual income is paid, during his College course, to a student in avowed need of beneficiary aid, of unexceptionable character, and of high rank in scholarship.

#### PREMIUMS

THE DEFOREST PRIZE, founded in 1823 by David C. DeForest, of New Haven, and consisting of a gold medal, of the value of one hundred dollars, is awarded "to that scholar of the Senior class who shall write and pronounce an English Oration in the best manner," the President and Professors being judges.

TOWNSEND PREMIUMS, five in number, of twelve dollars each, founded in 1843 by the gift of Isaac H. Townsend (Yale College 1822), of New Haven, are awarded in each Senior class for the best specimens of English Composition; all compositions receiving Premiums must be read in public.

THE DEFOREST MATHEMATICAL PRIZES were established by the late Dr. John DeForest (Yale College 1826), and were augmented by his son, the late E. L. DeForest (Yale College 1854), of Watertown, Connecticut. A first prize of one hundred dollars, and three second prizes of fifty dollars each, are offered to the Senior Class for worthy solutions of problems in pure and applied Mathematics. This year about sixty dollars from the same source will be offered in prizes to the Junior, Sophomore, and Freshman classes respectively, for the solution of problems.

WINTHROP PRIZES, the income of a fund of five thousand dollars given in 1871 by Buchanan Winthrop, Esq. (Yale College 1862), of New York City, are annually offered to the Junior class "for the most thorough acquaintance with the Greek and Latin poets," particular attention being paid to elegance of scholarship and appreciation of the spirit of the poetry, as shown at an examination during

the latter half of the second term. The first prize is two hundred dollars, and the second prize is the balance of the income for the year.

The subjects for the examination in the class of 1894 are as follows : in Greek, Theocritus, Bion, and Moschus ; in Latin, Horace.

THE HENRY JAMES TENEYCK PRIZES, the income of a fund of twenty-six hundred dollars, established in 1888 by the Kingsley Trust Association in memory of Henry James TenEyck (Yale College 1879), are awarded to the successful competitors at the Junior Exhibition, in the second term of each year.

THE C. WYLLYS BETTS PRIZE, established in 1890 by the Phelps Association, in memory of the late C. Wyllys Betts, Esq., of New York City, a graduate of Yale College in the class of 1867, is offered to the Sophomore class for excellence in English Composition. The prize, being the income of a fund of one thousand dollars, is awarded annually to that member of the class who shall have exhibited the most meritorious work in the required compositions of the year and in a special essay on a prescribed subject.

COLLEGE PREMIUMS are given each year in the Sophomore class for Declamation.

THE SCOTT PRIZE for excellence in German is offered to the Senior and Junior classes, and the SCOTT PRIZE for excellence in French to the Junior class ; these are of the value of thirty dollars each, and are given in books. The prizes were founded by the bequest of Henry W. Scott (Yale College 1863), of Philadelphia, who died in 1871.

THE LUCIUS F. ROBINSON LATIN PRIZES, from the income of a fund of five thousand dollars given in 1887 by the daughters of the late Lucius F. Robinson (Yale College 1843), of Hartford, will be awarded the present year to students showing special proficiency in Latin :—one series of prizes (of fifty, thirty, and twenty dollars, respectively) being open to members of the Senior and Junior classes

who have taken three hours per week in Latin electives ; and a second series, of the same amounts, to members of the Sophomore class.

BERKELEY PREMIUMS for excellence in Latin Composition are offered to the Freshman class near the end of each College year, from the surplus income of the Berkeley Scholarship Fund.

THE HUGH CHAMBERLAIN GREEK PRIZE, being the income of one thousand dollars given for this purpose, in 1886, by the Hon. Daniel H. Chamberlain (Yale College 1862), of New York City, is awarded annually to that member of the Freshman class who has passed the best examination in the Greek required for admission to College. Candidates for this Prize will be required to pass the whole examination in Greek the year of their entrance into College, even though they may have been accepted already in some or all of the Greek subjects in a previous year.

#### DEGREES

The degree of BACHELOR OF ARTS is conferred by the Corporation on those persons who have completed the course of academical exercises, as appointed by law, and have been approved on examination at the end of the course as candidates for the same. Candidates are required to pay their dues to the Treasurer as early as the Saturday before Commencement.

For the degrees of Master of Arts and Doctor of Philosophy, see page 127.

# SHEFFIELD SCIENTIFIC SCHOOL

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WILLIAM A. SETCHELL, PH.D., *Instructor in Biology*  
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THE SHEFFIELD SCIENTIFIC SCHOOL is devoted to instruction and researches in the mathematical, physical, and natural sciences, with reference to the promotion and diffusion of science, and also to the preparation of young men for such pursuits as require special proficiency in these departments of learning. Instruction is also given in French, German, English, History, Political Economy, and Constitutional Law.

The school, begun in 1847, and reorganized upon a more extensive scale in 1860, received in 1863, by the act of the Connecticut Legislature, the national grant for the promotion of scientific education under the Congressional enactment of July, 1862, and thus became the College of Agriculture and the Mechanic Arts for Connecticut.

The name was conferred upon it by the Corporation of the University as a recognition of the late Joseph E. Sheffield, Esq., whose gifts to it at various times constitute its chief property and endowment.

OFFICERS AND INSTRUCTORS—Upon the Governing Board, consisting of the professors permanently attached to the School, devolve its internal management and the greater part of the instruction. In addition to these and the instructors employed during the current year, Professor Niemeyer, of the Yale School of the Fine Arts, gives instruction in Elementary and Free-hand Drawing.

THE BOARD OF STATE VISITORS consists of the Governor, the Lieutenant-Governor, three Senior Senators, and the Secretary of the Board of Education.

The instruction is intended for two classes of students:—

I.—Graduates of this and other Colleges or Universities, and other persons qualified for advanced or special study.

II.—Undergraduates who desire a training, chiefly mathematical and scientific, in part linguistic and literary, for higher scientific studies, or for other occupations to which such training is suited.

#### INSTRUCTION FOR GRADUATE AND SPECIAL STUDENTS

Persons who have gone through undergraduate courses of study, here or elsewhere, may avail themselves of the facilities of the School for more special professional training in the physical sciences and their applications, gaining in one, two, or three years the degree of BACHELOR OF PHILOSOPHY, or in two additional years of Engineering study, that of CIVIL ENGINEER or that of MECHANICAL ENGINEER.

Or, engaging in studies of a less exclusively technical character, they may become candidates for the degree of DOCTOR OF PHILOSOPHY, under the conditions stated on page 127. The instruction in such cases will be adapted to the particular needs and capacities of each student, and may be combined with that given by instructors in other Departments.

**SPECIAL STUDENTS**—For the benefit of those who, being fully qualified, desire to pursue particular studies without reference to obtaining a degree, special or irregular students are received in most of the departments of the School; not, however, in the Select Course, nor in the Freshman Class. It should be distinctly understood that these opportunities are not offered to persons who are incompetent to go on with regular courses, but are designed to aid those who have received a sufficient preliminary education elsewhere to increase their proficiency in special branches.

#### TERMS OF ADMISSION

Candidates must be not less than fifteen years of age, and must bring satisfactory testimonials of moral character from their former instructors or other responsible persons.

For admission to the Freshman Class the student must pass a thorough examination in the subjects mentioned below. Certificates of standing elsewhere are not accepted in place of this examination, but it is desirable that each candidate should submit a statement from his principal instructor, showing definitely the ground covered by his preparatory studies. The subjects required for the full entrance examination are as follows :

*English Grammar*—Whitney's Essentials of English Grammar, or an equivalent.

*History of the United States.*

*Geography.*

*Latin*—(1) Simple exercises in translating English into Latin, together with the elements of Latin Grammar. (2) Caesar—the first four books of the Gallic War. (3) Vergil—the first two books of the Aeneid. The

latter involves necessarily an ability to scan Latin Hexameters. For these four books of Caesar and two of Vergil's Aeneid, no equivalent will be accepted.

*Arithmetic*—Fundamental Operations, Least Common Multiple, Greatest Common Divisor, Common and Decimal Fractions, Denominate Numbers, including the Metric System of Weights and Measures; Percentages, including Interest, Discount, and Commission; Proportion, Extraction of the Square and Cube Roots.

*Algebra*—Fundamental Operations, Fractions, Equations of the First Degree, with one or several unknown quantities; Inequalities, Ratio and Proportion, Powers and Roots, including the theory of Exponents, the Binomial Formula for an Entire Exponent, and the transformation and reduction of Radicals; Equations of the Second Degree, Progressions, Continued Fractions, Permutations and Combinations, the Doctrine of Limits, the Nature of Series, the Method of Indeterminate Coefficients, Fundamental Properties of Logarithms, Compound Interest, and Annuities.

*Geometry*—Plane, Solid, and Spherical; including fundamental notions of Symmetry, and examples of Loci and Maxima and Minima of Plane Figures,—so much, for example, as is contained in Newcomb's Geometry, exclusive of the chapters on the Ellipse, Hyperbola, and Parabola.

*Trigonometry*—including the Analytical Theory of the Trigonometrical Functions, and the usual formulae; the Construction and Use of Trigonometrical Tables; and the Solution of Plane Triangles:—so much, for example, as is contained in the first six chapters of Newcomb's larger Trigonometry and in Articles 75-78 of chapter viii, with the explanation of the first five tables in Newcomb's five-figure Logarithmic and Trigonometric Tables, which are furnished at the examinations in New Haven.

While no entrance examination will be held in the *History of England* before 1894, candidates for admission are urgently advised to make themselves as familiar as possible with that subject, as a knowledge of it is essential to the most successful prosecution of some of the studies of the course.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations (that is, either in June or September) of the first year for examination in the following



subjects or parts of subjects: *History of the United States, English Grammar, Geography, Arithmetic, Plane Geometry, and Algebra to Quadratic Equations.* Each candidate must submit a definite statement from his principal instructor that he is authorized to take the preliminary examination.

In order to have this preliminary examination counted, candidates must pass satisfactorily on four of the subjects; and notice of the intention to divide the examination must be given to Professor George J. Brush, Director of the School, on or before June 15. Under no circumstances will a candidate at the preliminary examination be allowed to offer any subject additional to those contained in the above list.

In his preparation in GEOMETRY, the candidate should, as far as practicable, have suitable exercises in proving simple theorems and in solving simple problems for himself. It is important, too, that he should be accustomed to the numerical application of geometric principles, and especially to the prompt recollection and use of the elementary formulæ of mensuration. In TRIGONOMETRY he should be exercised in applying the usual formulæ to a variety of simple reductions and transformations, including the solution of trigonometrical equations. Readiness and accuracy in trigonometrical calculations are also of prime importance to the candidate. If the use of logarithms is postponed in his preparation till Trigonometry is taken up (which is by no means necessary or advisable), he should then have abundant applications of them to all forms of calculation occurring in ordinary practice, as well as to those appearing in the solution of triangles. Finally, in all his calculations, he should study the art of neat and orderly arrangement.

In LATIN, the student should have such continued training in parsing as shall make him thoroughly familiar with declensions and conjugations, and with the leading principles of syntax. To secure these results more effectually, the requirement has been adopted of simple exercises in translating English into Latin. As this course of exercises is designed solely as a preparation for reading, it should be begun at the earliest stage of Latin study. A very large proportion of the deficiencies in the Latin examination for several years past has been due to the neglect of the suggestions of this paragraph, and to the attempt to read a Latin author with totally inadequate grammatical preparation.

## CHANGES IN THE ENTRANCE EXAMINATIONS

In the entrance examinations of 1895 the requirements for admission will be increased by the following subjects : History of England, Botany, and either French or German at the option of the student.

In the History of England candidates will be expected to be prepared on as much as is contained in the shorter books, such as Airy's Text-book of English History.

The requirements in Botany will include a knowledge of the structure and of the principles of classification of flowering plants, together with matters pertaining to fertilization and the dissemination of seeds. Gray's Elements of Botany is recommended as a suitable aid in preparing for the examination. It is desirable that the candidate should have had some experience in the analysis of common flowering plants.

In German the following texts will be required for the entrance examinations of 1895 and of 1896 :

Sturm's *Immensee* ; Andersen's *Bilderbuch ohne Bilder* ; Heyse's *La Rabbiata*.

In French the following texts will be required for the examinations of these same years :

Erckmann-Chatrian's *Le Conscrit*, or G. Sand's *La Petite Fadette*.

The applicant will also be required to translate at sight easy selections from German or French authors, and to have such a knowledge of grammar as will enable him to read intelligently the prescribed texts. This implies familiarity with the declensions of nouns, adjectives, and pronouns, with the conjugation and inflection of verbs, and with the syntax of cases. An ability to translate simple sentences from English into German or French will also be requisite.

There will also be an addition of one more book of Vergil to the requirement in Latin, and in addition to the requirement in English mentioned above, students entering the Freshman class in 1895 will be examined upon a cer-

tain number of works belonging to the literature of the nineteenth century. Those taking the preliminary examination in 1894 must be prepared to pass upon the following :

Byron's Fourth Canto of Childe Harold ; Macaulay's Essay on Byron ; Hawthorne's House of the Seven Gables ; Thackeray's English Humorists ; Tennyson's Princess.

The titles of the further works required in the final examination of 1895 will be given in the Catalogue for 1893-4. The examination will be mainly to test the student's knowledge of the matter contained in these works, though conditions may be imposed for defects of writing and expression.

In the preliminary examination in 1894, candidates will be allowed to offer, in addition to the present subjects, History of England, Botany, and four books of Caesar, will be required to offer Latin Grammar and Exercises.

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The regular examination for admission for 1893 will be held in New Haven at North Sheffield Hall, on Thursday, Friday, and Saturday, June 29, 30, July 1 (beginning at 9 A. M. on Thursday).

In 1893, examinations (for the Freshman Class only) will also be held in Concord and Exeter, N. H., in Andover, Mass., in Norwich, Conn., in New York City, in Albany, in Buffalo, in Chicago, in Cleveland, in Cincinnati, and in San Francisco (beginning on Thursday, June 29, at 9 A. M.), at places to be announced in local newspapers of the day previous. Candidates who propose to be present are requested to send their names to Professor George J. Brush, Director of the School, before June 15. A fee of five dollars will be charged for admission to the examinations outside of New Haven.

A second examination is held, *in New Haven only*, at the beginning of the college year, on Tuesday and Wednesday September 26, 27, 1893. Candidates for this examination must be present at North Sheffield Hall at 9 A. M. on Tuesday.

In general, examinations for admission to the Freshman Class of the *next* year can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

All candidates for advanced standing, *whether from other colleges or not*, are examined, in addition to the preparatory studies, in the studies already pursued by the class which they wish to enter. Certificates of standing elsewhere cannot be accepted in place of these examinations, although they may be taken into account as collateral evidence of fitness for admission. No one can be admitted as a candidate for a degree, later than at the beginning of the Senior year.

#### INSTRUCTION FOR UNDERGRADUATE STUDENTS

COURSES OF INSTRUCTION, occupying three years, are arranged to suit the requirements of various classes of students. The first year's work is the same for all; for the last two years, the instruction is chiefly arranged in Special Courses. The Special Courses most distinctly marked out are the following :

- |   |                            |
|---|----------------------------|
| (a.) In Chemistry;  | (b.) In Civil Engineering; |
| (c.) In Mechanical Engineering;                             |                            |
| (d.) In Agriculture;  | (e.) In Natural History;   |
| (f.) In Biology preparatory to Medical studies;             |                            |
| (g.) In studies preparatory to Mining and Metallurgy;       |                            |
| (h.) In select studies preparatory to other higher studies. |                            |

The arrangement of studies is indicated in the annexed scheme. A fuller statement of the methods and character of the instruction will be found below, p. 105. Unless otherwise specified, the number of hours given means hours per week.

#### FRESHMAN YEAR: INTRODUCTORY TO ALL THE COURSES

FIRST TERM:—*German*—Whitney's Grammar and Reader, 3 hrs. *English*—Lounsbury's History of the English Language, 1 hr.; *Mathematics*—The Derivatives of Algebraic Functions; Fundamental Prop-

erties of Equations ; Plane Analytical Geometry ; 3 hrs. *Physics*—Recitations, 2 hrs.; experimental lectures, 2 hrs. *Chemistry*—Mixer's ; Recitations, 2 hrs.; laboratory practice, 2 hrs. *Elementary Drawing*—Practical lessons in the Art School, 3 hrs. *Hygiene*—Lectures, 1 hr.

SECOND TERM :—*Language, Physics, and Chemistry*—as stated above. *Mathematics*—Plane Analytical Geometry, continued, 3 hrs. *Physical Geography*—8 Lectures during the term. *Botany*—Gray's Lessons, 3 hrs. *Drawing*—Principles of Orthographic, Isometric, and Oblique Projection ; Intersection and Development of Surfaces ; Outlines of Shadows ; Shading and Tinting ; Elements of Perspective ; Examples of various applications of Instrumental Drawing ; 3 hrs.

NOTE. The Freshman class is divided, as soon as practicable, into several divisions according to scholarship, and an opportunity to make rapid progress is thus given to the more proficient.

For the Senior and Junior years, the students select for themselves one of the following Courses :

#### (a.) IN CHEMISTRY :

##### JUNIOR YEAR :

FIRST TERM :—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Recitations, 2 hrs. ; Laboratory Practice, 15 hrs. ; Blowpipe Practice and Determinative Mineralogy, 4 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM : *Organic Chemistry*—Lectures and Recitations, 2 hrs. *Quantitative Analysis*—Laboratory Practice, 15 hrs. ; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and determination of species, 4 hrs. ; Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

##### SENIOR YEAR :

FIRST TERM :—*Organic Chemistry*—Recitations and Lectures, 2 hrs. *General and Theoretical Chemistry*—Recitations, 3 hrs. *Chemical Physiology of Vegetation (Agricultural Chemistry)*—Lectures, 2 hrs. *Quantitative Analysis*—15 hrs. *Geology*—Recitations, 3 hrs. *French*—2 hrs.

SECOND TERM :—*General and Theoretical Chemistry*—Recitations, 3 hrs. *Agricultural Chemistry*—Lectures, 2 hrs. *Chemistry*—Analytical or experimental Organic Chemistry, 15 hrs. *Metallurgy, Assaying, and Gas Analysis*, 2 hrs. *Geology*—3 hrs. *Mineralogy*—(optional). *Lithology*—Lectures (optional). *French*—2 hrs.

The Laboratory Practice of the second term of the Senior year may be devoted to such special branches of Analytical, Inorganic or Organic Chemistry as the student may desire, or to original investigations in connection with theses.

### (b.) IN CIVIL ENGINEERING:

#### JUNIOR YEAR:

FIRST TERM:—*Mathematics*—Analytical Geometry of Three Dimensions; Elements of the Theory of Functions; Differential Calculus, with applications to Geometry and Analysis; Solution of Numerical Equations; 5 hrs. *Surveying*—Field work, 16 hrs. till November. *Drawing*—Descriptive Geometry, 8 hrs. from November. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Mathematics*—Integral Calculus with applications to Geometry; Rational Mechanics; 5 hrs. *Drawing*—Descriptive Geometry, concluded; Topographical drawing; Practice in working drawings; 6 hrs. *Surveying*—Topographical and Railroad curves. 16 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

#### SENIOR YEAR:

FIRST TERM:—*Field Engineering*—Location of line of Railroad, setting out slope-stakes, calculation of earthwork; Lectures on economic location; Office-work; Henck's Field-Book; 20 hrs. till November. *Civil Engineering*—Mechanics applied to Engineering; Resistance of Materials; Bridges and Roofs; Stone Cutting with Graphical Problems; 8 hrs. *Geology*—Recitations, 3 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 8 hrs. *French*—2 hrs.

SECOND TERM:—*Civil Engineering*—Bridges and Roofs; Building Materials; Stability of Arches and Walls; Foundations; 6 hrs. *Dynamics*—Principles of Mechanism; Thermodynamics; Steam Engine; 6 hrs. *Hydraulics*—Hydraulics and Hydraulic Motors, 3 hrs. *Drawing*—Designing; Practical Problems; Specifications and Estimates; 12 hrs. *Spherical Trigonometry and Astronomy*—Practical Astronomy, with field work, 6 hrs. *Geology*—3 hrs. *Lithology*—Lectures (optional).

### (c.) IN MECHANICAL ENGINEERING:

#### JUNIOR YEAR:

FIRST TERM:—*Mathematics*—Analytical Geometry of Three Dimensions; Elements of the Theory of Functions; Differential Calculus, with applications to Geometry and Analysis; Solution of Numerical Equations; 5 hrs. *Surveying*—Theory and Practice; 3 hrs. until Novem-

ber 1st. *Principles of Mechanism*—Kinematics, 1 hr. *Shop Visiting*—Study of Machine Details and Tools; 3 hrs., beginning when Surveying ends. *Drawing*—Descriptive Geometry, 3 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM—*Mathematics*—Integral Calculus, with applications to Geometry; Rational Mechanics; 5 hrs. *Principles of Mechanism*—Applied Kinematics; Forms of Teeth of Wheels; Cams; Parallel Motions; Transmission of Power by Belts and Gearing, etc.; 1 hr. until Spring recess, then 2 hrs. *Shop Visiting*—continued, 3 hrs. until Spring recess. *Study of the Steam Engine*—2 hrs. after Spring recess. *Drawing*—Machine Elements and Mechanical Movements—4 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

#### SENIOR YEAR:

FIRST TERM:—*Applied Mechanics*—Friction; Moment of Inertia; Centrifugal Force; Elasticity and Strength of Materials; Theory of Flexure and Torsion; Strains in Structures; Construction of Roofs and Bridges; Equilibrium and Pressure of Fluids; Theory of Flotation; Flow of Fluids in Pipes and Channels; Resistance of Ships; 8 hrs. *Machine Designing*—Practical Exercises in Designing Machine Details and Simple Machines, 8 hrs. *Study of the Steam Engine*—continued, 2 hrs. *Electricity* (optional)—Laboratory work, 3 hrs. *Visits of Inspection*—Examination of Machinery in operation; Reports of Visits. *Blowpipe Analysis and Determinative Mineralogy* (optional)—3 hrs. *French*—2 hrs.

SECOND TERM:—*Applied Mechanics*—continued; Hydrodynamics; Theory of Water-Wheels and Turbines; 6 hrs. *Thermodynamics*—3 hrs. *Study of the Steam Boiler*—2 hrs. *Electricity* (optional)—Laboratory work, 3 hrs.; Lectures, 2 hrs. *Machine Designing*—continued; advanced exercises in Preparing Designs and Working-Drawings for Machinery; Estimates of Weight and Cost of Machinery; 8 hrs. *Blowpipe Analysis and Determinative Mineralogy* (optional)—3 hrs. *French*—2 hrs. *Lithology*—Lectures (optional). *Thesis. Visits of Inspection and Reports.*

#### (d.) IN AGRICULTURE:

##### JUNIOR YEAR:

The course is identical with that in Chemistry, except that in the second term lectures in Crystallography and Descriptive Mineralogy are omitted, and in the Spring half-term Botany is substituted for Determinative Mineralogy.

## SENIOR YEAR :

FIRST TERM:—*Agriculture*—Recitations, 2 hrs. *Agricultural Chemistry* (Chemical Physiology of Vegetation)—Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—Lectures, 2 hrs. *Meteorology*—Lectures, 2 hrs. *Botany*—Laboratory Practice, 5 hrs. *French*—Recitations, 2 hrs.

SECOND TERM:—*Agriculture*—Recitations or Lectures, 2 hrs. *Agricultural Chemistry*—Lectures, 2 hrs. *Physiology*—Recitations and Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Heredity and Stock-Breeding*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science and Public Health*—Lectures, 2 hrs. during Spring half-term. *French*—2 hrs.

## (e.) IN NATURAL HISTORY :

Either Mineralogy, Zoology, or Botany, may be made the principal laboratory study, some attention in each case being directed to the other branches of Natural History.

## JUNIOR YEAR :

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 20 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *Botany*—Gray's Manual, 3 hrs.; Laboratory Practice, 3 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Zoology*—Laboratory Practice, 6 to 12 hrs.; Recitations; Excursions (land and marine). *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. *Physiology*—Recitations and lectures, 2 hrs. *Organic Chemistry*—2 hrs. *Embryology*—Lectures. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Physical Geography*—4 hrs. during Winter half-term. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

## SENIOR YEAR :

FIRST TERM:—*Geology*—Recitations, 3 hrs.; Excursions. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Lectures, 2 hrs.; Recitations, 4 hrs.; Excursions. *Botany*—Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-Structure and of the Anatomy of the higher Cryptogamous Plants, 5 hrs.; Excursions. *Meteorology*—Lectures, 2 hrs. *French*—2 hrs.



SECOND TERM:—*Geology*—Recitations, 3 hrs. *Anatomy of Vertebrates*—Huxley's, 2 hrs. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Recitations, 4 hrs.; Lectures, 2 hrs. *Botany*—Herbarium Studies, especially in the Cryptogamous Orders; Botanical Literature; Essays in Descriptive Botany. *Sanitary Science, Laws of Heredity, and Principles of Breeding*—Lectures. *French*—2 hrs.

Besides the regular course of recitations and lectures on structural and systematic Zoology and Botany, and on special subjects, students are taught in the laboratories to prepare, arrange, and identify collections, to make dissections, to pursue investigations, and when sufficiently advanced, to describe genera and species in the language of science. For these purposes, large collections in Zoology belonging to the University are available, as are also the private botanical collections of Professor Eaton.

#### (f.) IN BIOLOGY PREPARATORY TO MEDICAL STUDIES:

##### JUNIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 15 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Comparative Anatomy and General Biology*—Laboratory Practice, 18 hrs.; Lectures and Recitations, 1 hr. *Physiology*—Huxley's; Recitations, 2 hrs. *Embryology*—8 Lectures during the term. *Organic Chemistry*—continued, 2 hrs. *Mineralogy*—continued through Winter half-term, 4 hrs. *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous plants, 5 hrs. during Spring half-term. Excursions. *Exercises in English Composition*—1 hr. *French*—2 hrs. *German*—3 hrs.

##### SENIOR YEAR:

FIRST TERM:—*Physiological Chemistry and Physiology*—Recitations and Lectures, 3 hrs.; Laboratory Practice, 13 hrs. *Organic Chemistry*—Lectures and Recitations, 2 hrs. *Zoology*—Lectures, 2 hrs. *Botany*—Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-structure, and of the Anatomy of the higher Cryptogamous Plants, 5 hrs. Chemical Physiology of Vegetation—Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *French*—2 hrs.

SECOND TERM:—*Physiological Chemistry, Physiology, and Experimental Toxicology*—Illustrative Lectures, Recitations, and Laboratory Prac-

tice, 27 hrs. *Theoretical Chemistry*—2 hrs. during Winter half-term. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Sanitary Science*—Lectures, 2 hrs. during Spring half-term. *Laws of Heredity and Principles of Breeding*—Lectures, 2 hrs. during Winter half-term. *French*—2 hrs.

#### (g.) IN STUDIES PREPARATORY TO MINING AND METALLURGY:

Young men desiring to become Mining Engineers can pursue the regular Course in Civil or Mechanical Engineering, and at its close can spend a fourth year in the study of Metallurgical Chemistry, Mineralogy, etc.

#### (h.) IN THE SELECT STUDIES PREPARATORY TO OTHER HIGHER STUDIES:

##### JUNIOR YEAR:

FIRST TERM:—*Astronomy*—Recitations, 4 hrs. *English*—Early English, 2 hrs. *Exercises in English Composition*—1 hr. *History*—Myers' Mediæval and Modern History, 3 hrs. *French*—3 hrs. *German*—3 hrs. SECOND TERM:—*Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. during Spring half-term. *Physical Geography*—4 hrs. during Winter half-term; Recitations from Guyot and Lectures. *English*—Chaucer, Bacon, Shakespeare, 2 hrs. *History*—Myers' History, continued; Bright's History of England 3 hrs. during Winter half-term, 4 hrs. during Spring half-term. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

##### SENIOR YEAR:

FIRST TERM:—*Geology*—Recitations, 3 hrs.; Excursions. *English*—Shakespeare, 3 hrs. *Meteorology*—Lectures, 2 hrs. *Political Science*—5 hrs. *French*—2 hrs. SECOND TERM:—*Geology*—continued, 3 hrs. *Heredity*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science*—Lectures, 2 hrs. during Spring half-term. *Political Economy*—Recitations, Exercises, and Lectures, 5 hrs. during Winter half-term, 4 hrs. during Spring half-term. *English*—Shakespeare, Milton, Dryden, Pope, Gray, and later authors, 4 hrs. during Winter half-term, 3 hrs. during Spring half-term. *French*—2 hrs.

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Lectures and instruction in Military Science are annually given to the Senior class by the Professor of Military Science and Tactics.

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The following account of the various subjects specified in the above scheme will explain the character and aim of the instruction.

**ELEMENTARY CHEMISTRY**—The exercises in Elementary Chemistry consist in recitations from a text-book, and experiments by the students in the laboratory to illustrate statements in the book. The object of the laboratory work is to facilitate the study of the subject, and to train the students in manipulation and in the observation of chemical phenomena. Notes are required, and students are questioned on the experiments.

**ANALYTICAL CHEMISTRY**—*Qualitative and Quantitative*—This study is intended to serve two purposes. Analytical Chemistry is used by the advanced student as a means of investigation in scientific or technical researches. The beginner, however, derives from its study advantages of another kind. The knowledge of the properties of chemical compounds, the familiarity with chemical reactions gained by experience in the laboratory, and the development of the reasoning faculties by the application of this knowledge in analytical processes, enable the student to generalize and classify chemical phenomena, and aid him to understand the more abstract theories of chemical philosophy. The method of instruction adopted is conformed to this view of the uses of the study. Text-books are used and recitations are required, but the more important part of both study and instruction is performed in the laboratory. In order to solve the problems which are there constantly presented, the student, aided by books and instructors, must learn both principles and their applications. The student, throughout his course in Analytical Chemistry, spends three consecutive hours in laboratory work during five days of the week. The laboratory, however, is kept open seven hours daily for the benefit of graduate students and others who desire to devote more time to this study.

Qualitative Analysis forms a part of the courses in Chemistry, Biology, Agriculture, and Natural History. Quantitative Analysis is one of the more important studies of the Senior year in the Chemical Course. It is also included to some extent in the Agricultural Course.

**GENERAL AND THEORETICAL CHEMISTRY**.—This subject occupies three hours a week during the whole of the Senior Year in the Course in Chemistry. Mendeléeff's "Principles of Chemistry" is used as a text-book, and regular recitation work is supplemented, as occasion demands, by oral instruction. The course is designed to present to the student such a general view of the Science of Chemistry as will enable him to appreciate the investigations which are being carried on at the present time in its various departments, and will also give him a knowledge of the fundamental principles involved in the chemical processes used in the arts.

**ORGANIC CHEMISTRY.**—The course in Organic Chemistry is a combination of text-book work with experimental lectures. The class has two exercises weekly from the commencement of Junior year to the end of the first term of Senior year. Laboratory work in this department of Chemistry is optional to those who have completed the required work in Analytical Chemistry.

Opportunity is also afforded for the carrying on of original investigations in this subject, either in connection with theses, or as a part of the regular work in the case of advanced students.

**PHYSIOLOGY.**—Elementary Physiology is taught by text-book recitations and demonstrations, being designed especially for Junior students in the Biological course. In Senior year, particular attention is paid to the physiology of digestion and nutrition in connection with the study of Physiological Chemistry. Opportunity is likewise afforded for experimental work in certain lines of pure Physiology.

**PHYSIOLOGICAL CHEMISTRY and EXPERIMENTAL TOXICOLOGY.**—Physiological Chemistry is taught by laboratory exercises, illustrative lectures, and recitations. Each student is provided with a suitable working place in the laboratory, well equipped with all needed apparatus and material. The regular course of work, designed especially for Senior students in the Biological Course, extends through one year and embraces a thorough study of the chemical composition of the various tissues and fluids of the body, together with a study of the chemical and physiological processes of respiration, digestion, secretion, excretion, and nutrition in general.

Beginning with a study of the albuminous bodies, the experimental work extends through the epithelial, connective, contractile, and nerve tissues. Proceeding then to digestion, the various digestive fluids are studied, artificial digestions are made, and the several products of digestive action isolated and studied. The blood and urine are next considered, and students are taught to make both qualitative and quantitative analyses of the latter and to identify abnormal constituents. A portion of one term is also devoted to a study of the chemical reactions of the more important mineral and organic poisons, and their physiological action is determined experimentally. Students are also taught how to separate poisons from organic tissues and fluids, and to identify them, both by chemical and physiological reaction. During the latter half of the second term, Senior year, opportunity is afforded for the carrying on of original investigations on some selected subject in either physiological chemistry or toxicology, in connection with the preparation of graduating theses. The course of work is particularly recommended to students intending to enter upon a course of medical studies.

COMPARATIVE ANATOMY and GENERAL BIOLOGY are taught by laboratory work, lectures, and frequent examinations. The regular course of instruction, intended especially for Juniors in the Biological Course, extends through the second term, and is designed to give the student the mental and manual training in the methods of investigation by which the facts and principles of these sciences have been established, and at the same time to give him a sufficient knowledge of their elements to enable him to pursue with profit the more special studies which follow.

The course begins with the general anatomy of the vertebrate type, in connection with the study of Elementary Physiology. Dissections of the frog and mammal are made under the immediate supervision of the instructor, and the student is required to make careful sketches and records of his work, which is supplemented by demonstrations and informal lectures. Some of the simpler forms of plants and animals are next studied microscopically, the methods of microscopical investigation taught, and the general facts of cell-structure illustrated. The histology of the higher animals is then studied in more detail, microscopical preparations of the principal tissues and organs are made and examined, the general principles of the morphology of the tissues are illustrated, and the student is specially drilled in distinguishing the different tissues under the microscope. Near the end of the term, instruction in embryology, with special reference to human morphology, is given by a short course of lectures and demonstrations.

**GEOLOGY**—The course in Geology includes recitations and oral instruction, extending through the entire year on alternate mornings. During the first half-year, the recitations are attended by the entire Senior Class, except those in the course in Mechanical Engineering. This part of the course includes Physical, Lithological and Dynamical Geology. These subjects are illustrated by diagrams and specimens.

The last half of the year is devoted to Historical Geology and Palaeontology. This part of the course is pursued by all the Seniors except those in the courses in Mechanical and Civil Engineering. Suitable collections of fossils are used to illustrate the subject.

Opportunities are afforded for optional geological excursions during the warmer months.

**MINERALOGY**—The instruction in Mineralogy is carried on by means of practical work in a laboratory especially fitted up for the purpose, and is intended to familiarize the student with the common minerals, attention being devoted especially to those which are of economic, geological, or scientific importance. To understand better the chemistry

of the subject, the student is first made familiar with the simple chemical and blowpipe reactions useful in testing minerals, and applies this knowledge later to the determination of unknown species. The students have access to a labeled collection, where they can study the properties of the minerals and make comparisons, and also to extensive unlabeled collections, arranged especially to give them practice and facility in the correct identification of minerals. In addition to the laboratory work, instruction is given in Crystallography, illustrated by a collection of models and natural crystals. The lectures in Descriptive Mineralogy to the more advanced students are illustrated by means of the extensive private collection of Professor Brush. The laboratory is provided with apparatus for the thorough chemical and physical investigation of minerals and with an extensive library to which students have access. The laboratory is open seven hours each day to accommodate any who desire to devote more time and attention to the subject than is laid out in any of the prescribed courses.

**LITHOLOGY**—Elementary lectures with special application to economic uses and properties of rocks. For more advanced work see under courses of Graduate instruction.

**ZOOLOGY**—The instruction in Zoology includes a course of lectures on Systematic Zoology, Morphology, and Embryology. These lectures are generally given twice a week, and continue during about half the year. The students are required to keep careful notes of the lectures.

Students in the Natural History Course are also required to pursue a course of laboratory instruction during the second term of the Junior and all of the Senior year. This generally occupies from two to four hours a day on four days of each week. It includes dissections of various classes and orders of animals, with microscopic studies of the finer structures and of minute animal forms, as well as work in systematic Zoology.

Special courses of recitations or lectures on particular subjects are also given when desirable.

**BOTANY**—The scheme of instruction provides for three successive courses of study, as either ending the study for the ordinary student, or introducing it for one who desires to become a professional botanist.

The first or elementary course, which is required of all the Freshmen, is designed to teach the nature of the visible organs of flowering plants, tracing the life-history of vegetation from seed, through stem and root, leaves, branches, buds, blossoms, and fruit, to seed again. The method consists mainly in the use of some easy text-book, like Gray's Lessons, with whatever illustrations and explanations may be needed to secure

the student's attention. The second course, coming the next year, is restricted to the sections in Biology, Natural History, Agriculture, and Selected Studies, and is intended to enable the student to recognize the chief natural orders of native plants, with the ability to identify the common species. The class meets two or three times a week in spring and summer, and is practiced in identifying plants, using Gray's Manual as a standard, and employing the ordinary simple dissecting microscope. At this point the instruction for the Select Course ceases; in the next fall term the work for the courses in Biology, Natural History, and Agriculture is entirely practical, books being used only for reference. Students begin with cutting thin sections of some common woody and herbaceous stems, and are shown how to prepare such sections for examination and for permanent preservation as microscopic objects. After acquiring some facility in microscopic manipulation, various parts of flowering plants are brought in for dissection and examination, and towards the close of the term some attention is given to ferns, mosses, and algae. This finishes the course for ordinary students; for those who may desire to prosecute the science professionally, the work is arranged to suit individual requirements, whether it be in the direction of Histology, or of Systematic Botany as applied to flowering plants, or to ferns, mosses, hepatics, or algae.

**THE CHEMICAL PHYSIOLOGY OF VEGETATION**, with special reference to the Composition, Vital Processes and Uses of commonly cultivated Plants, is the subject of a course of Lectures (two weekly) during the Fall Term.

This course is preliminary to Lectures on "Agricultural Chemistry." Attendance is required of Seniors in Agriculture, Chemistry and Biology.

**AGRICULTURE**—The special instruction in the science of Agriculture is by recitations and lectures, with such aid and appliances as are suited to the class-room and laboratory. Besides Analytical and Agricultural Chemistry, it includes a discussion of the cultivation of the staple field crops of the country; theories of rural economy and systems of husbandry; the laws of heredity, and principles of stock-breeding; Botany, Mycology and the diseases of plants, and Zoology. Opportunity is afforded also for the study of insects injurious to crops, the elements of Veterinary Science, and Bacteriology.

**AGRICULTURAL CHEMISTRY**—Lectures are given during the second term on the Atmosphere, Water and the Soil as related to Agriculture, Crop Production, the Theory and Practice of Tillage and the use of Fertilizers, and the Chemistry of the Dairy and of Cattle Feeding.

**SANITARY SCIENCE**—The lectures on this subject discuss the natural laws which govern the public health ; their relation to the social habits and condition of communities ; instruction in the use of mortuary statistics ; the germ-theory of disease and theory of disinfectants ; epidemics and pestilence, with their relations to the prosperity of a community, and methods of control ; the hygiene of private dwellings and public buildings ; the relations of the water supply to public health ; sewerage ; legislation relating to public health and methods of official sanitary administration.

**MATHEMATICS**—The Mathematical studies of the Freshman year are pursued by all members of the class ; those of the Junior year, by students in the course of Engineering and properly qualified Special Students who may choose them. During the latter year, in connection with the instruction briefly indicated in the scheme above [p. 100], a course of familiar lectures is given to supplement the ordinary classroom exercises.

**PHYSICS**—The object of the experimental lectures is not only to elucidate the subjects treated in the text-books employed, but also to extend the treatment of such subjects, and to introduce others where thought desirable. A considerable portion of the work of the year is the preparation for recitation on matter thus presented.

The facilities of the Physical Laboratory are extended to such graduate students and Seniors as may desire them.

*Course in Advanced Physics.*—A course of two lectures per week, beginning in January, is supplemented by laboratory work. The earlier portion of the time is devoted to the theory of observation and the method of least squares. The course is optional to all who have a command of the Calculus.

**MILITARY SCIENCE AND TACTICS.**—Instruction in this course is obligatory upon the whole Senior class in all departments. The work is carried on chiefly by lectures, upon which satisfactory notes must be submitted. Such topics as the following are discussed : military economy ; the American military problem ; organization and reorganization ; modern war on field and map ; statistics and logistics ; the combined use of "the three arms ;" strategy and campaigning ; orders of battle and grand tactics ; special operations of war and field service ; minor tactics and the art of war ; use of cavalry in campaign and battle ; use of artillery ; use of infantry, and the Turko-Russian war. The course will terminate with an examination, and a special military certificate is awarded, by the Regular Army officer in charge of the department, to



such students as attain a sufficient degree of proficiency, and give evidence of military aptitude. In connection with this course a brief original paper is required.

When a sufficient number of students desire it, practical instruction in drill in the School of the Soldier and School of the Company will be given. The names of the three most distinguished students in this department must be sent to the Adjutant General of the Army for the publication in the Army Register, and also be sent to the Adjutant General of the State to which each student belongs.

**CIVIL ENGINEERING**—The object of this course is to give, first of all, a thorough preparation in the principles of the various sciences involved, and afterwards, as extensive practice in the application of these principles as the time at disposal, the ability of the students, and the facilities and plant permit.

Under the first head are included such subjects as Mathematics, Physics, Mechanics, Thermodynamics, Astronomy, Geology, Mineralogy, Chemistry, and Botany; and under the second head, Drawing, Surveying, Strength and Properties of materials, and Design and Construction of various kinds, such as Bridges, Roofs, Foundations, Arches, Retaining Walls, Dams, Water Works, Railroads, Improvement of Rivers and Harbors, Sewerage and Drainage, Water Motors, etc.

The first division includes Civil Engineering as a Science, the other, Civil Engineering as an Art. The ground covered by the first is definite, and the instruction is made as thorough as possible. The ground covered by the second is of almost indefinite extent. Here, by a careful selection of practical examples, such as occur in engineering practice, the application of principles is illustrated, and together with the analytical or algebraic methods, the student is also instructed in practical graphic solutions, wherever such solutions present a special value. Much time is devoted to geodetic operations and to surveying in the field. Instruction is given in the practical operations connected with the reconnaissance, location, and surveys of roads, canals, and railroads, such as setting out, cross-sectioning, setting grade stakes, calculation of earthwork, etc. Thorough instruction is given in drawing and design, the construction of working-drawings, and principles of designing as applied to bridges, roofs, etc.

The instruction is by means of practical exercises, lectures, and recitations, so combined as to develop as far as possible the mental powers of the student. Visits of inspection are made at suitable intervals to private and public works of engineering interest.

The entire course requires five years, three years of undergraduate and two of graduate instruction; and a thesis of merit upon some approved subject, accompanied by designs and estimates, is required

upon the completion of the course, as also at the end of the first three years. Examinations are also held at the end of every term and year.

In what follows, such details are given as may be of interest to those who contemplate taking the course.

*Mathematics*—6 hours weekly, Junior year, both terms. See Synopsis of course.

*French and German*—Students in this course take in the Junior year the regular studies of the Junior class in both German and French. French is continued to the end of Senior year.

*Drawing and Descriptive Geometry*—Drawing is begun at once in the first term of Freshman year, under the charge of the Professor of Drawing in the Art School, and includes practice in free-hand drawing. In the second term, under the Instructor in Instrumental Drawing, the students take isometric drawing with application to drawing from models and structures by measurements, shading, tinting, conventional use of colors, principles of orthographic projections, and practice in making simple working-drawings, 4 hours both terms.

The Drawing of Junior year, 3 hours both terms, includes Descriptive Geometry, the drawing of structures from measurement, and elements of design for simple structures. The instruction is by recitation, lectures, practical exercises, and models, and is under the charge of the Instructor in Instrumental Drawing and the Professor and Instructor in Civil Engineering. Included in the work of this year is also the mapping of surveying field-notes.

In the Senior year, the drawing consists of the mapping of the surveys of that year, and the designing of structures and finished drawings, designs and estimates, under the charge of the Professor and Instructor in Civil Engineering, 6 hours both terms.

*Surveying and Field Engineering*—The instruction in the field occupies about 20 hours for six or more weeks in both terms of Junior and Senior years. The exercises at these times are so arranged as to secure as much consecutive time as possible in the field. The work of the Junior year includes the use and adjustment of instruments; practice surveys; recitations and lectures upon surveying operations and methods of keeping field-notes. Levels are run, surveys made, plotted, and checked; blue-print copies of drawings made, the use of compass, level, and transit acquired. In the second term of Junior year, land and topographical surveys are made and railroad curves run.

In the first term of Senior year, a line of railroad is located and set out from a contour map previously obtained, grades and curves established and set out, and computations made. The theory of economic location is taught by lectures and recitations in connection with the field-work. The work is arranged so that each student has sufficient practice in all the various operations. The text-books used are

Gillespie and Johnson's works, Henck's Field Book, Gore's Elements of Geodesy, and Merriman's Theory of Least Squares. The course is under the charge of the Professor and Instructor in Civil Engineering, aided by several assistants.

*Mechanics of Engineering*—Senior year, 6 to 8 hours, both terms. The text-books of Weisbach, 1st and 2d volumes, are used in connection with lectures and solutions of practical problems in illustration of the various topics. The course includes thorough instruction in the strength of materials, the stability of foundations, retaining walls, dams and embankments and masonry arches, by lectures and graphic methods. Questions of hydraulics, water-supply, the measurement of discharge, and the theory and construction of water-motors receive attention. A course in Thermodynamics with application to air and steam engines is also included.

*Construction and Design*—Senior year 6 hours both terms. A thorough course is given in the determination of stresses and the detailed design of roofs, bridges, etc., with working-drawings, specifications, and estimates. Visits of inspection are made, and recitations and lectures held in connection with the work in the drawing room.

*Astronomy*—This course occupies 6 hours during the second term of Senior year, and includes practical work and the use of the sextant and transit in determining time, latitude, and azimuth.

*Geology*—This course occupies 3 hours up to the middle of the second term of Senior year.

*Mineralogy*—This course, under the Professor of Mineralogy, occupies three hours up to the middle of the second term in Senior year.

A course of lectures on the theory of electricity and its applications, by the Professor of Physics, is open to students in this department, and can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

**MILITARY ENGINEERING**—The object aimed at is to disseminate military information, and to awaken interest in the application of the arts of peace to those of possible war. In connection with the courses of Civil Engineering and Military Science, lectures will be given upon such topics as: systems of fortification; sea-coast defenses; hasty intrenchments; passage of rivers and military bridges; military reconnaissance, and instruments; battlefield telemetry and methods; sea-coast range-finding, and ship-tracking devices; gunpowder and ballistic machines; high explosives and demolitions; gun metals, modern ordnance and gunnery; armor plates, turrets, projectiles, and fuses, torpedoes, submarine mines, military electric installation, and countermining.

**MECHANICAL ENGINEERING**—The objects aimed at in the plan of instruction in this course are, to give to the student a thorough training

in elementary and advanced Mathematics and Physics, and their application to the science of Construction; to make him familiar with the general principles of Engineering and with the practical details of mechanical construction through which these principles are made useful; and to enable him ultimately, in beginning the work of his profession, to bring to bear upon it a well balanced store of theoretical and practical knowledge, and a mind trained in correct habits of thought and work.

The complete course covers five years, three of which are spent in undergraduate study, and two in a graduate course, a portion of which may be given to actual practical work. The subjects and methods of instruction in the undergraduate course are as follows:—

*Mathematics*—See synopsis, page 100.

*French and German*—Students take in the Junior year the regular studies of the Junior class in both French and German. French is continued to the end of Senior year.

*Surveying*—A short course in Surveying comprises lectures on methods of surveying and the construction and use of instruments, also practice in field-work in the use of the level and transit, city surveying, establishing grades, and laying out buildings.

*Shop-Visiting* divides the time equally with Drawing in the Junior year until the spring recess. The student, accompanied by the instructor, is employed in studying machinery in use and in process of construction in different machine-shops in the city. He is required to make satisfactory, carefully dimensioned sketches, from measurements taken by himself, of the complete machines and their parts, and to describe the tools and mechanical operations used in producing the simpler pieces.

*Drawing*—Descriptive Geometry is taught in the drawing room by lectures and recitations, and by exercises at the drawing board, where the problems are solved graphically by the student. Instruction in drawing Machine Elements is given in the Junior year. Models and cartoons showing examples of approved practice are used by the instructor, who also gives personal attention to each student's work at the board as it progresses.

*Principles of Mechanism*—This is a course in theoretical and applied Kinematics. Instruction is by text-books and lectures, illustrated by diagrams and models, an extensive collection of which belongs to the School and is accessible to the student.

*Steam Engine*—Recitations and lectures in this subject begin in the Junior year, after the spring recess. They relate to the structural details of engines and to the mechanical principles involved in their working. The subject is continued in the first term of Senior year, when particular attention is directed to various kinds of valve-gear, the governor, the fly-wheel, balancing, and the effect of the weight of the reciprocating

parts. In the second term of Senior year, the study of steam boilers takes the place of that of engines.

*Indicator Practice*—In the Senior year, the student is afforded opportunities to apply the indicator to various engines in operation, and has practice in reading indicator cards and measuring them by the planimeter. He is taught to detect such defects in the engine as are shown by the cards.

*Applied Mechanics*—In this course lectures, recitations, and exercises in the solution of practical problems, relate to the topics specified under this head in the scheme on page 101.

*Thermodynamics*—Recitations and lectures on the mechanical theory of heat and its application to hot-air engines, gas engines, and the steam engine.

*Machine Design*—The course in this subject consists chiefly in practical exercises at the drawing board, and partly in lectures on the functions of machines and the mechanical principles which are applied in determining the proportions of machinery. The student, under the guidance of an experienced instructor, is employed in making complete working-drawings of machines, many examples of which are in the drawing rooms and the basements of the school. He does not copy the examples, but is required to change the dimensions and in many cases to alter the design, and is ultimately taught to make partly new designs of important machinery, such as cranes, yacht engines, machine tools, boilers, etc. The discipline the student receives is such as he would obtain in the drawing office of an engineering establishment, while he is also carefully instructed in the theory of the subject he deals with, and in the practical bearing of all his work.

In the Senior year, several excursions are made by the class, accompanied by one or more instructors, to neighboring manufacturing and engineering centers, where large manufactories, pumping works, ocean steamers, etc., are visited. Full notes must be taken, and a satisfactory written report upon the machinery examined is required of the student.

*Thesis*—Before graduating, the student must present a satisfactory thesis on some subject approved by the professor in charge of the department of Mechanical Engineering.

A course of lectures on the theory of Electricity and its applications is open to students in this department, and these lectures can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

**ASTRONOMY**—Students in the Select Course receive instruction in Astronomy four hours per week during the first term of Junior year.

Students of Civil Engineering during the second term of their Senior year have six recitations per week, and also practical experience in the determination of time, azimuth, latitude, longitude, etc.

ENGLISH—The course is designed to give the student acquaintance with the great representative writers of the various epochs. A history of the language is one of the studies of the Freshman year ; and after that year the study of the language is made entirely subordinate to that of the literature. During the first term of Junior year, however, extracts from Early English authors are read, and Early English Grammar is studied, so as to familiarize the student with the inflections then in use and the distinctions existing between the leading dialects. It is the aim of this term's work to give such knowledge of forms, and to some extent of words, that the student will be able to read at sight any Early English author whose writings do not involve special difficulties of language or vocabulary.

With the second term, the regular study of English literature proper begins with Chaucer ; and for the rest of the course till the end of Senior year the following authors are read : Bacon, Shakespeare, Milton, Dryden, Pope, Gray, Goldsmith, and later writers. Those mentioned in the lists are always studied, but other authors not named are also taken up, the course varying somewhat in different years. In all cases, complete works of a writer are studied, not extracts ; as, for instance, several of Chaucer's Tales, and several of the plays of Shakespeare. The authors are taken up in chronological order, and the literary history of the time is likewise carried on in connection with the great representative writers of each period.

ENGLISH COMPOSITION—This course, required of the entire Junior class, consists of weekly exercises based on selections from the writings of well-known authors, such as Irving, DeQuincey, and Macaulay. While it intends in the first place to give freedom of expression and the correction of the most obvious faults by practice in writing rapidly the substance of a passage previously assigned, it also aims to direct the attention of the student to qualities of style and methods of composition, to arouse his appreciative interest in the works as literature, and to improve the quality of his writing by improving the quality of his thought. To this end occasional discussions of the selections read will occupy a part of the weekly hour.

GERMAN—The aim in this department is to give such a knowledge of facts and principles as shall qualify the student as rapidly as possible to use the language for those various purposes which his special needs may require, and particularly to facilitate the use of German treatises in his later special studies. To accomplish this, the course consists of the combination of the study of systematic German grammar with a complementary and progressive course of written and oral translation from English into German, the latter being designed for the double purpose of increasing the command of grammatical principles,

and through the establishment of a habit of ready and accurate expression, of laying the foundation for future colloquial use of the language. In connection with the foregoing, it is attempted to introduce the student to as many different styles and as many forms of composition as the time allows. For this purpose the reading matter is in general selected from readers and collections prepared for the use of schools in Germany, and characterized by the number and variety of their extracts, thus enabling the instructor to select pieces that illustrate one another and to avoid similar lines of reading with successive classes. Special attention is paid during a portion of the course to English affinities, to analogies in the formation of English and German abstract terms, to the commoner rhetorical resemblances and differences, to the details of arrangement in German sentences, and the development of secondary from primary significations of words.

The subjects of derivation and composition are also systematically studied, both with reference to their practical bearing on the acquisition of a vocabulary, and their scientific value in illustrating the growth of language.

In view of the shortness of the course there is no attempt to secure any considerable acquaintance with German literature. A body of representative pieces of lyric poetry, however, is made the basis of careful literary study, with special attention to poetic diction and variety of metrical form. Memorizing German poems is practiced to some extent as a class exercise, as also retranslation of dictated literal versions of simple pieces into German verse, in accordance with prescribed rhythm and sequence of rhyme.

At the beginning of the Junior year an advanced division is organized, which is thus enabled to read a much larger amount of matter and to pursue more critical methods. The attention of this division is sometimes given for a few months to extracts treating of leading events in German history, with a collateral course of German historical poetry, the selections being made so as to be mutually illustrative. Historical poems not contained in the text-books are often furnished by dictation.

During the last few weeks of the course, there is an attempt to initiate the student into the art of rapid and intelligent, though uncritical reading, dispensing largely with dictionary and grammar and aiming to form independent habits of observation and induction. For this purpose recourse is had to entertaining novels.

In general, it is the endeavor, while aiming primarily and constantly at acquiring a working knowledge of contemporary German, to combine habitually scientific and empirical methods, to enforce correct notions as to the nature of language, to secure incidentally some of the most important disciplinary results of elementary linguistic study, and to give some conception, by suggestive questions and occasional state-

ments, of the various special directions which a more extended and advanced course would necessarily take.

The time allotted to the subject is three hours a week during the Freshman and Junior years.

Regular text-books: Whitney's German Grammar, Whitney's German Dictionary; Ahn's Exercises, or Eysenbach's German Exercises.

**FRENCH**—The aim of the study in this department of modern languages is to give a fluency in reading which will enable the student to master the modern writers with comparative ease, and a speaking acquaintance as great as is possible in the time allotted. Speed is not the only end aimed at. No place is given to the superficial system which results in the student's possessing a smattering of French phrases and a few idioms, to the exclusion and sacrifice of any real grasp of the subject. It is considered that thoroughness of work, and the training of the powers of thought, as well as those of memory, are as much requisites in this branch of education as in any other. The beginning of the course is devoted to grammatical grounding and correctness of pronunciation, and the first term of each year is spent in learning and reviewing the grammar. On this basis, by means of easy conversational exercises, the student is expected and encouraged to frame sentences, deriving his vocabulary from the exercises and books he is reading in the class. A certain portion of the course is given to French composition and the construction of the sentence. Simple prose is then taken up, followed by the more advanced forms. From the start the subject of the history and evolution of the language is begun. Great emphasis is laid on the etymology, the various changes of form, and a more thorough study of the syntactical theory, as the course proceeds. Special stress is thus laid on the scientific side of the language, its historical development, the relations of French and Latin, and the laws of derivation. As far as is possible without interfering with the value of the recitations, short descriptions are given of the social conditions of past and present French life, and of the state of modern politics, constant reference being made to the intimate connection of literature and history. Lectures are given treating critically of the growth of French literature, particular attention being paid to the authors read in the class-room, the masterpieces of the classical and later periods being treated separately and comparatively. A different cycle of texts is used from year to year, so that only a general outline of the works read can be stated. As far as possible, specimens of the best prose and poetry will be included; the classical and contemporary drama: Corneille, Racine, Molière, George Sand, the Romantic School, Daudet, and the lighter plays of the modern French stage, are used; and the beauties of style,



the spirit of the language, and the idiomatic expressions are pointed out.

The later part of the course treats of the following topics :

I. The History of the Language, based on Brachet, Brunot, and Clédât, with references to Ampère, Littré, and Pellissier.

II. The Rise and Development of the Drama, with discussion of its French Form.

III. The Classical Period.

IV. A General Survey of French Literature (by text-book).

Opportunities for special work or for advanced courses in reading will be furnished, should occasion arise.

**HISTORY**—The greater part of the work is carried on by means of recitations, Myers' *Mediaeval and Modern History* and Bright's *History of England* being used as text-books. Both oral and written recitations are employed, and frequent lectures are given on different questions of interest and importance.

In the *Mediaeval Period* special attention is given to the growth of civilization and to the development of the religious, intellectual, political, and economic forces which culminated in the Reformation and ushered in the *Modern Period*.

In the *Modern History* special study is given to the political history of Europe as an introductory study to the present European situation.

That portion of *English History* is studied which is most intimately connected with *United States History*, the causes which led to the separation of the two countries being specially discussed.

The students are encouraged to pursue independent courses of reading, and references are given to works in the University Library. There is also a small historical library in the recitation-room from which the students may draw books.

Constant use is made of historical maps in connection with recitations and lectures.

**POLITICAL ECONOMY**—In the beginning of the course, an effort is made to familiarize the students with the fundamental principles of Economics, and more particularly to train them in economic reasoning. More difficult problems are then taken up and discussed, and special topics are assigned to the class for investigation. A small library, containing a number of copies of each of the principal authorities, has been provided, in order that the students may be able to familiarize themselves somewhat with the literature of the subject, without expense to themselves. The instruction is given partly by means of text-books and partly by lectures.

THE TERMS AND VACATIONS correspond with those of the College. (See Calendar, p. 6.)

EXPENSES—THE TREASURER'S BILLS are made out and delivered to the students three times a year, viz : at the beginning of each term or half-term, at which time they are payable. Drafts on Boston, New York, and Philadelphia are received at par. The annual charge for tuition for undergraduate students is \$150. An additional charge of \$5 for each term or half-term is made for incidentals, including the use of libraries, public rooms, gymnasium, and reading room. The student in the Chemical and Biological Courses has an additional charge of \$15 per term, or half-term, for chemicals and the use of apparatus in the chemical laboratories. He also supplies himself at his own expense with flasks, crucibles, etc., the cost of which should not exceed \$10 a term.

For graduate students the charge for tuition is one hundred dollars per year.

THE FEE FOR GRADUATION in the case of BACHELORS of PHILOSOPHY is ten dollars, unless the person taking the degree is also a graduate of the College, when the fee is but five dollars.

#### LIBRARIES AND READING ROOMS

The Library of the University, containing over 160,000 volumes, is open every week-day to students for consultation and for the drawing of books ; in a separate part of the building is the Linonian and Brothers Library, a collection of over 30,000 volumes in general literature, specially selected for the use of undergraduate students.

The College Reading Room, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening. There is also a reading room and a select library (partly for circulation and partly for reference) in Dwight Hall.

The special technical library of the Scientific School consists of about five thousand volumes, including the Hillhouse Mathematical Library.

There is also a special chemical library, in which the principal chemical journals and periodicals, both of this country and of Europe, may be found, and a small library of History and Political Science is located in one of the class rooms for the convenience of students pursuing these subjects.

#### GYMNASIUM

THE NEW UNIVERSITY GYMNASIUM is designed to provide all the students with opportunities for exercise, under the advice of a Director, who is a regularly educated physician, and any student may enter the class of general gymnastics, under the Director's immediate care. The building contains: a complete Turkish bath, marble swimming pool, marble tubs, bowling alleys, rowing-tanks, free showers, separate room for boxing, fencing, wrestling and many sports, a locker room, and the main exercise-hall, which offers a clear floor-space of 10,000 square feet, and is from 22 to 56 feet in height. A thorough physical examination and measurement of each student is made yearly by the Director, and a record of these results is kept as a basis of advice as to exercise and regimen; an examination of this record shows that the standard of health of the average student improves during his College course.

#### DINING HALL.

THE YALE DINING HALL, adjacent to the College square, is under the direct control of the University and furnishes board at cost (approximating \$4.00 per week). The Hall contains seats for 450, and is open to students of the Academic and Scientific Departments.

#### SCHOLARSHIPS

STATE SCHOLARSHIPS—By an Act passed in 1863, the General Assembly of Connecticut established certain scholarships from the income of the fund derived from the National Grant of July, 1862. For some years past

there have been twenty-five of these scholarships (the number depending upon the income of the fund), designed to aid by free tuition young men fitting themselves more especially for pursuits in agriculture, manufacturing, and engineering. An act of Congress, approved August 30, 1890, entitled "*An act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the Colleges for the benefit of Agriculture and the Mechanical Arts established under the provisions of an act of Congress approved July 2, 1862,*" has permitted these scholarships to be increased. For the ensuing year the number will be eighty-two.

The applicants must be citizens of Connecticut. The appointing board consists of the Board of State Visitors (see p. 92) and the Secretary of the School; it meets on the Tuesday before Commencement (viz: on June 27, 1893), to fill the vacancies for the next University year. Applications should be made, after May 1 and prior to June 24, to Professor George J. Brush, Secretary of the Appointing Board.

THE HOLMES SCHOLARSHIP, founded by Samuel Holmes, Esq., amounts to fifty dollars per year. The recipient must be a citizen of Middlebury, Prospect, Waterbury, or Wolcott, Connecticut; the appointments are made by the Board of Agents of the Bronson Library in Waterbury.

#### DEGREES

THE DEGREE OF BACHELOR OF PHILOSOPHY is conferred on those who have completed one of the three-year courses, and have passed the examination at its close.

CIVIL ENGINEER AND MECHANICAL ENGINEER—see page 128.

DOCTOR OF PHILOSOPHY—see page 127.

# COURSES OF GRADUATE INSTRUCTION

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## FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT  
JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*  
REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*  
EDWARD J. PHELPS, LL.D., *Professor of Law*  
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Sanskrit and Comparative Philology*  
GUSTAVE J. STOECKEL, MUS.D., *Professor of Music*  
HUBERT A. NEWTON, LL.D., *Secretary, and Professor of Mathematics*  
GEORGE J. BRUSH, LL.D., *Professor of Mineralogy*  
SAMUEL W. JOHNSON, M.A., *Professor of Theoretical and Analytical Chemistry*  
WILLIAM H. BREWER, PH.D., *Professor of Agriculture*  
JOHN E. CLARK, M.A., *Professor of Mathematics*  
DANIEL C. EATON, M.A., *Professor of Botany*  
ARTHUR M. WHEELER, M.A., *Professor of History*  
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*  
ADDISON VAN NAME, M.A., *Instructor in Japanese*  
J. WILLARD GIBBS, PH.D., *Professor of Mathematical Physics*  
CHARLES B. RICHARDS, M.A., *Professor of Mechanical Engineering*  
ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*  
THOMAS R. LOUNSBURY, LL.D., *Professor of English*  
OTHNIEL C. MARSH, PH.D., LL.D., *Professor of Palaeontology*  
EUGENE L. RICHARDS, M.A., *Professor of Mathematics*  
JOHN H. NIEMEYER, M.A., *Professor of Drawing*  
TRACY PECK, M.A., *Professor of Latin*  
ADDISON E. VERRILL, M.A., *Professor of Zoology*  
WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*  
REV. GEORGE T. LADD, D.D., *Professor of Moral Philosophy and Metaphysics*  
CHARLES H. SMITH, M.A., *Professor of American History*  
JULES LUQUIENS, PH.D., *Professor of Modern Languages*  
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*  
WILLIAM G. MIXTER, M.A., *Professor of Chemistry*  
HENRY P. WRIGHT, PH.D., *Professor of Latin*  
HENRY S. WILLIAMS, PH.D., *Professor of Geology*  
HENRY A. BEERS, M.A., *Professor of English Literature*  
A. JAY DUBOIS, PH.D., *Professor of Civil Engineering*

EDWARD S. DANA, PH.D., *Professor of Physics*  
THOMAS D. SEYMOUR, M.A., *Professor of Greek*  
CHARLES S. HASTINGS, PH.D., *Professor of Physics*  
FRANK A. GOOCH, PH.D., *Professor of Chemistry*  
ALBERT S. COOK, PH.D., L.H.D., *Professor of English*  
ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*  
GEORGE B. ADAMS, PH.D., *Professor of History*  
HENRY W. FARNAM, R.P.D., *Professor of Political Economy*  
EDWARD P. MORRIS, M.A., *Professor of Latin*  
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*  
ARTHUR T. HADLEY, M.A., *Professor of Political Economy, and Dean*  
ARTHUR H. PALMER, M.A., *Professor of German*

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## OTHER INSTRUCTORS

REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*  
REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*  
WILLIAM C. ROBINSON, LL.D., *Professor of Law*  
REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*  
JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*  
HARRISON W. LINDSLEY, C.E., *Instructor in Perspective*  
REV. EDWARD L. CURTIS, PH.D., D.D., *Professor of Hebrew*  
SAMUEL L. PENFIELD, PH.B., *Assistant Professor of Mineralogy*  
HORACE L. WELLS, PH.B., *Assistant Professor of Analytical Chemistry*  
WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*  
HENRY R. LANG, PH.D., *Instructor in the Romance Languages*  
EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*  
THOMAS D. GOODELL, PH.D., *Assistant Professor of Greek*  
CHARLES E. BEECHER, PH.D., *Assistant Professor of Palaeontology*  
HORATIO M. REYNOLDS, B.A., *Assistant Professor of Greek*  
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*  
E. HERSHEY SNEATH, PH.D., *Instructor in Philosophy*  
LOUIS V. PIRSSON, PH.B., *Instructor in Lithology*  
FRANK K. SANDERS, PH.D., *Assistant Professor of Biblical Literature*  
EDWARD T. McLAUGHLIN, B.A., *Assistant Professor of English*  
GUSTAVE F. GRUENER, B.A., *Assistant Professor of German*  
EDWARD W. SCRIPTURE, PH.D., *Instructor in Experimental Psychology*  
REV. FRITZ JACOBSON, PH.D., *Lecturer on the History of Philosophy*  
FRANK G. MOORE, PH.D., *Tutor in Latin*  
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*  
JOHN C. SCHWAB, PH.D., *Lecturer on Political Science*  
A. GUYOT CAMERON, PH.D., *Assistant Professor of French*  
REV. ARTHUR FAIRBANKS, PH.D., *Instructor in Christian Ethics*  
HANNS OERTEL, PH.D., *Instructor in German*

OLAUS DAHL, PH.D., *Instructor in Swedish and Danish*

IRVING FISHER, PH.D., *Tutor in Mathematics*

EDWARD F. BUCHNER, B.A., *Lecturer in Pedagogy*

ERWIN W. RUNKLE, B.A., *Lecturer on the History of Philosophy*

THE INSTRUCTION OF GRADUATES, independently of the courses of study provided in the professional schools, had been attempted in an informal way before 1847, when such courses were definitely arranged, and the Department of Philosophy and the Arts constituted, with this object in view. The degrees of Doctor of Philosophy and Civil Engineer were first offered in 1860, that of Dynamical or Mechanical Engineer in 1873, and that of Master of Arts (previously given without evidence of study) in 1874.

Graduates of this and other Colleges and Universities, and (in exceptional cases, by special permission) other persons of liberal education, who are at least eighteen years old, are received as students for longer or shorter periods, with or without reference to the attainment of a degree.

The degree of Doctor of Philosophy with the courses of the Graduate Department leading thereto is open to candidates without distinction of sex.

The attention of teachers who desire to fit themselves more thoroughly for a higher grade of professional work, is called to the advantages offered by this Department for pedagogical instruction and discipline. In addition to the special and advanced study of the subjects in which the graduate student desires instruction, and the pursuit of courses in psychology, ethics, philosophy, and of other courses cognate with pedagogy, opportunity will be afforded to observe the actual practice in the class-room of expert and successful instructors, as well as the organization of the different departments of the University and their methods of work.

Instruction is given partly by lectures, partly by recitations and by oral and written discussions, partly by directing courses of reading, and partly by work in the labora-

tories and with instruments. There are also various voluntary associations, in which instructors and students meet together periodically for the reading of papers, oral discussions, etc.; such are, the Classical Club, the Mathematical Club, the Political Science Club, the Philosophical Club, and the Modern Language Club.

Graduates of this college, with the approval of the classical instructors, are admitted to the free enjoyment of the privileges of the American School of Classical Studies, at Athens. To this School this college has contributed from the first, and in connection with it ten Yale graduates have studied in Greece.

The terms and vacations correspond with those in the Undergraduate Departments. (See Calendar, p. 6.)

The fee for instruction is generally one hundred dollars; but it may be more, or less, according to the courses pursued and the amount of instruction received.

All graduate students not regularly enrolled in any other Department of the University, are required to register their names at the Treasurer's office at the beginning of each year of study.

Students have the free use of the Library of the University (including the Linonian and Brothers Library), and are admitted to the College Reading Room on payment of an annual fee of two dollars. The University Library contains about 160,000 volumes, and many thousands of unbound pamphlets. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number,—the foreign serials alone being not less than five hundred. The Linonian and Brothers Library contains 31,000 volumes. The whole number of volumes in the several libraries of the University is over 200,000.

The Reading Room receives forty-eight daily newspapers, American and foreign, over fifty weeklies, and seventy other periodicals,—in addition to the periodicals received at the University Library.

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THE DEGREE OF DOCTOR OF PHILOSOPHY is conferred upon those who, after having taken a Bachelor's degree (implying a course of undergraduate study equivalent to that pursued in the Academical Department), and having studied in this Department for not less than two years, shall have passed a satisfactory final examination and presented a thesis giving evidence of high attainment in the branches of knowledge pursued. The thesis must be deposited at the Library for public inspection, not later than June 1. The degree is not given, upon examination, to those whose studies are pursued elsewhere. The requirements for a degree in many cases exact of the student more than two years of labor; especially when the course of undergraduate study has been less than four years. A good knowledge of Latin, German, and French, is required in all cases, unless, for some very exceptional reasons, the candidate be excused by the Faculty. The fee for graduation is ten dollars.

The Committee having charge of matters connected with this degree consists, for the present year, of Professors Whitney, Newton, Brush, Wheeler, Ladd, and Hadley. They will give advice and information as to courses of study, conditions, etc.

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THE DEGREE OF MASTER OF ARTS is conferred on Bachelors of Arts of Yale College or of other Colleges, of two years' standing or upwards, who have given to the Faculty of the Academical Department evidence of having made satisfactory progress in liberal studies after receiving their first degree. Such evidence may be furnished by one year's systematic study (not professional) in New Haven, under the direction of the Academical Faculty, followed by an examination. Graduates of other Colleges can obtain the degree only by residence as thus described.

Such Bachelors of Arts of *Yale College* as may not choose to reside at the College for the prosecution of study may

show at any time, not less than three years after graduation, by their printed essays, or by submitting to special examinations, that they have spent a year in liberal (and non-professional) study, and are worthy of recommendation for this degree.

A committee of the Faculty is appointed (consisting for the present year, of Professors Newton and Wheeler), to whom candidates for this degree must submit their proposed courses of study for approval by the first of November in each year; and the evidence of a year's study must be submitted to the same committee by June 1.

In the case of resident students, the charge for instruction will usually be one hundred dollars, with a fee of ten dollars for the degree. In the case of non-residents, the fee for examinations and the degree will usually be twenty-five dollars.

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THE DEGREES OF CIVIL ENGINEER AND MECHANICAL ENGINEER are conferred on Bachelors of Philosophy who have taken the first degree in Engineering study, and who pursue a higher course under the direction of the Governing Board of the Sheffield Scientific School, for at least two years, sustaining a final examination, and giving evidence of their ability to design important constructions and to make the requisite drawings and calculations. The fee for graduation is five dollars.

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FIVE FELLOWSHIPS yielding four hundred dollars each, and twenty Scholarships yielding one hundred dollars each, have been created by the Corporation out of the income of University funds. These fellowships and scholarships are open to graduates of all colleges; but in the case of the fellowships, preference is given to those who have already spent at least one year in graduate study. Candidates for these appointments should send their appli-

cations, accompanied by letters of recommendation and other evidences of the excellence of their work already accomplished, to Professor George T. Ladd, not later than May 1.

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For further information, address the Dean, Professor Arthur T. Hadley.

## COURSES OF INSTRUCTION

Courses marked with an asterisk (\*) are undergraduate courses, but are open to graduate students, provided that they have the consent of the instructor and the approval of the Faculty.

The number of hours stated means, in every case, hours of exercises, lectures, or recitations, each week.

### I. PSYCHOLOGY; ETHICS; PHILOSOPHY

Professor LADD :—

I *Introduction to Philosophy.* 2 hrs. both terms.

This course is designed for all graduate students who desire any acquaintance with philosophy, whether they make it a matter of special study or not. It may be taken for purposes of general culture; since it provides for a brief survey of all the principal problems of philosophy, in an elementary way. One hour each week is occupied by the instructor with a lecture. The other exercise consists of discussions and reading of papers, in which each member of the class is expected to take part. The course follows the order of topics in Ladd's "Introduction to Philosophy," which is supplemented by the study of several of Lotze's "Philosophical Outlines," and by references to other books.

During the latter half of the year special emphasis will be laid upon the philosophy of life and of conduct, in connection with the discussion of problems in Ethics, Aesthetics, and the Philosophy of Religion.

- 2 *Kant Seminary.* 2 hrs. both terms.

The class meets one evening each week for the study of Kant. During the year the Critique of Pure Reason and the Critique of Practical Reason will both be read. An expository and critical lecture of about thirty minutes will, in general, precede the discussion, by the teacher and by the class, of each passage. The aim of the course is, first, to interpret and, second, to judge critically the Kantian system of thought.

- 3 *Philosophy ; Modern Pessimism.* 2 hrs. both terms.

This course will consist of the critical study of Schopenhauer's "The World as Will and Idea." The study is conducted mainly by the seminary method ; and its aim is, not only to estimate correctly the answers given by the author to the various problems of philosophy, but also to judge of the ground on which the modern form of Pessimism bases its conclusions, as well as of its effect upon conduct, art, and the religious life.

- \*4 *Readings in Philosophy.* 2 hrs. both terms.

Several of the most recent and quickening books on the different aspects or problems of philosophy will be rapidly read during the year. The readings will be accompanied by lectures, discussions, papers, etc. The design of the course is to secure a somewhat special acquaintance with the current thoughts of the year on philosophical questions.

Assistant Professor DUNCAN :—

- 5 *Advanced Psychology.* 2 hrs. both terms.

Sully's "The Human Mind" is read as a basis for examination of the principal topics in this subject. Especial attention is paid, by supplementary reading and by discussions, to recent investigations and advances in empirical psychology.

Dr. SNEATH :—

- 6 *Psychology and Philosophy of Education.* 2 hrs. both terms.

a. A thorough study of the psychological basis of education. This will include a careful analysis of the mental processes, a study of the chronological development of the mental powers, of the dependence of the higher psychical activities upon the lower, of the interdependence of the powers of the mind, and the measurement of mental faculty in its relation to the theory and practice

of education. Special attention will be given to the psychology of attention, habit, interest, etc. The physical and social environment, heredity, sex, temperament, as bearing on education receive due attention. Sully's "Outlines" and "Teacher's Handbook of Psychology," Galton's "Inquiries into Human Faculty," Waitz's *Allgemeine Paedagogik*, etc.

b. A careful study of the philosophical basis of education. Rosenkranz's "Philosophy of Education."

Special topics are investigated by members of the class, the results of which are presented in the lecture room.

[By a recent provision, laboratory work in experimental and physiological psychology, under a special instructor, is open to graduate students,—comprising the following two courses:]

Dr. SCRIPTURE :—

7 *Laboratory Course in Experimental Psychology.*

2 hrs. both terms.

This includes lectures and discussions by the members of the laboratory on the methods of psychology, exercises in experimenting, work in the construction and care of apparatus, lectures on laboratory economy, etc.

8 *Special Problems in Psychology.*

Under the guidance, and with the assistance, of the instructor, particular problems in experimental and physiological psychology may be worked out in the laboratory. Such work will be permitted to count for the degree of Doctor of Philosophy, according to its excellence and the amount of well-spent time devoted to it. It is expected also that, in certain cases, theses for this degree may be prepared as giving the results of such work.

[Attention is called to the fact that those who wish to study psychology from this point of view, with great thoroughness and detail, or with the design to fit themselves for the work of teachers, may take allied courses in physics, physiology, and biology, whether offered by the Graduate Department or by the Medical School.]

Dr. JACOBSON :—

- 9 *Swedish Philosophy.* 2 hrs. both terms.

A careful study of the development of speculative thought in Sweden will be made, with frequent reference to writers of Denmark and Norway. Lectures are accompanied by discussions and papers prepared by the class.

Mr. BUCHNER :—

- 10 *Educational Practice.* 2 hrs. both terms.

This course comprises :—

1. *Methodology* : A summary study of the laws of mental development, as including the principles common to all methods ; and a historical and critical examination, to determine the best methods applicable to the different main branches of instruction. Compayré's Lectures on Pedagogy.

2. *Organization* : The educational legislation, administration, and internal organization, pertaining to primary, secondary, and technical schools, and to the principal Universities in Europe and America,—including a historical survey of their rise and development.

Constant reference is made to National Educational Reports, Sonnenschein's "Educational Codes of Foreign Countries," Bardeen's "Common School Laws," Klemm's "What I Saw in European Schools," Laurie's "Rise and Early Constitution of Universities."

Mr. RUNKLE :—

- 11 *British Philosophy.* 2 hrs. both terms.

The course of speculative thought in Locke, Berkeley, and Hume will be traced. Careful study of selected writings of these authors will be made, accompanied by discussions and lectures. The aim is to consider them, not only in themselves but also in their relations to the subsequent development of philosophy in the Scottish and Kantian Schools.

[The following courses in the Divinity School are also open to graduate students of philosophy, on obtaining, in each case, permission from the instructor.]

## Professor HARRIS :—

- 12 *The Philosophical Basis of Theism and the Self-Revelation of God.* 2 hrs. both terms.

A course of lectures on these topics, accompanied by a study of the text-books bearing the same names. The course is primarily designed for Juniors in the Divinity School.

- 13 *Special Studies in the Philosophy of Religion ; or Christian Ethics.*

Primarily designed for graduates of the Divinity School.

## Professor FISHER :—

- 14 *Evidences of Christianity.*

The testimonies of the early ecclesiastical writers relating to the Gospels will be examined ; or Weiss's Life of Jesus will be read, with references to Beyschlag, Weizsäcker, and other recent authors.

## Dr. FAIRBANKS :—

- 15 *History of Social Ethics (half-course).*

2 hrs. 1st half-year.

The effort is made to trace the growth of the moral ideal as this was actually felt by the people. The popular conceptions of duty and its sanctions, of sin and its penalty, and the concrete duties in relation to these conceptions, are discussed with reference to their development. Special attention is paid to the Hebrews and to the Old-Testament ethical standards ; to the social ethics of Greece ; and to the influence of Christianity upon these.

- 16 *Comparative Religion (half-course).* 2 hrs. 2d half-year.

(a) Two or three types of religion among uncivilized tribes (the North American Indians and the Negroes) are studied, and the different theories as to the origin of religion criticized. (b) Under the History of Religion, the religions of India and Persia are studied, and on this basis the effort is made to trace some of the laws that govern the development of religion, and the factors which tend to aid or hinder such development. (c) The Phenomenology of Religion, including a discussion of rites and ceremonies, objects of worship, etc., and the connection with these of the real development of religion.

17 *Philosophy of Religion.*

This course of lectures is primarily designed for graduates of the Divinity School.

[For courses in Plato and Aristotle, see below, p. 144 ; for Ethics as a Political Science, see p. 135.]

## II. POLITICAL AND SOCIAL SCIENCE AND HISTORY

Professor SUMNER :—

1 *Finance and Politics in the History of the United States.*

2 hrs. both terms.

This course deals with the history of the United States as a field for the study of currency, banking, tariff, public finance, the history of political economy, the art of politics, the science and art of government, and industrial history. It occupies two years. In 1892-3 the first part, to 1825, will be given. It is assumed that those who attend this course have a good knowledge of the civil history of the United States.

2 *The Historical Development of the Industrial Organization.*

2 hrs. both terms.

Including the transformation of the system of production from the manor and guild system to the wages system ; the transformation of commerce by the opening of the world-market ; the invention and improvement of credit institutions ; the development of transportation and means of communication. In connection with these subjects, attention is given to the evolution of economic doctrine, and to the social effects of economic changes.

\*3 *Social Science.*

2 hrs. both terms.

A very elementary course in Anthropology and Ethnology, with the origin of civilization and the development of social institutions. The object is, by a scientific study of human society, to acquire a standpoint for the study of social problems. Those who are able to read difficult French or German may join special divisions to read text-books in those languages. The French text-book will be Quatrefages' *Histoire Générale des Races Humaines* ; the German text-book will be Lippert's *Kulturgeschichte*.



## Professor FARNAM :—

- 4 *The Principles of Public Finance.* 2 hrs. 2d term.

A systematic survey of the means by which the expenditures of government are met, regard being had both to the economic principles involved and to the fiscal systems of modern states. Leading topics are: the budget, taxation (national and local), public debts, and state banks considered as aids to public credit.

- 5 *The History of Labor Organizations.* 2 hrs. 1st term.

In this course the development of associations of artisans from the origin of the guild system to the present day is traced. Particular attention is paid to their relations to the arts, their influence on the welfare of the laboring classes, their connection with the governmental regulation of industry, and their bearing on some practical problems of the day.

## Professor HADLEY :—

- \*6 *Economics (Elementary Course).* 2 hrs. both terms.

A general introduction to the science. Walker's Political Economy is used as a text-book, supplemented by lectures and discussions of the more important problems of theory and practice.

- 7 *Relations between Economics and Law.* 1 hr. both terms.

With special reference to corporate finance and railroad rates.

- 8 *Ethics as a Political Science.* 1 hr. 1st term.

An historical study of the development of moral and legal standards in their relations to one another.

- 9 *Recent Economic Discussion.* 1 hr. 2d term.

A critical study of books and monographs on selected topics of economic science. Special attention is paid to capital and interest. The members of the class are expected to take their full share in special preparation for these discussions.

## Professor HADLEY, Dr. SCHWAB, and Dr. FISHER :—

- \*10 *Economics (Advanced Course).* 3 hrs. both terms.

This course is intended for those who have special interest in the subject, and is divided into sections small enough for effective oral work of recitation and instruction. Each section will meet each of the officers named during part of the year. Professor Hadley will give instruction in the History of Political Economy

with special reference to modern Economic Theories, using as text-books Jevons' Theory of Political Economy and Sumner's Economic Problems. Dr. Schwab will give instruction in the principles of Currency, Banking, Taxation, and Public Debts, with special reference to the financial history of the United States, using as text-books Jevons' Money, Dunbar's Banking, and Adams' Public Debts. Dr. Fisher will give instruction in the Tariff History of the United States; this will include a discussion of the general theory of international exchange, its effect on prices and distribution; the history of the protection sentiment, and the various theories of protection; Taussig's Tariff History of the United States will be used as a basis.

Dr. SCHWAB :—

\*11 *Economics.*

1 hr. both terms.

The financial history of the United States since 1860 is the subject of class-room work for the year, but provision is made for those who prefer to pursue investigations in other departments of Economics. Each student is expected to investigate an assigned topic thoroughly, and to prepare a series of papers upon it. No one is admitted who does not take course 10.

12 *United States Public Finance.*

2 hrs. 1st term.

The principles of government-revenue and their application to the finances of the United States, especially to State, County, Township and City finances. Leading topics are: the spheres of expenditure and revenue of the different political units of the United States; their fiscal policy; historical and critical study of their forms of revenue; public lands, government monopolies, fees, licenses, taxes, and loans; the American system of State and local taxation in theory and practice; State and local debt financiering.

13 *Investigation Course.*

1 hr. 2d term.

General topics in the financial history of the United States are assigned for individual investigation by the students. The results are presented and discussed at the meetings of the class.

Dr. FISHER :—

14 *Insurance.*

2 hrs. both terms.

Mathematics, Economics, and History of Insurance. (1) Mortality statistics used in computation of premiums by the theory of chances. Contrasted character of Life, Fire, and Marine statistics and risks. Reinsurance. (2) Economic function and utility of insurance. Discrimination of good and bad forms of insurance.

Speculation and gambling. Connection of insurance with interest and credit. (3) Greek Bottomry. Hanseatic and Lombard Insurance. Development in England and America. Recent branches of insurance. Governmental and legal aspects.

\*15 *Mathematical Theory of Prices.* 1 hr. both terms.

Analytical, graphical, and mechanical methods applied to production, consumption, exchange, and the determination of prices. Jevons' Theory of Political Economy is used as a basis. Students acquainted with German and French read parts of Auspitz und Lieben's *Untersuchungen über die Theorie des Preises*, and Walras's *Éléments d'économie politique pure*. Instruction is given in the conceptions and processes of the Calculus (covering 50 pages from Loomis's Elements), sufficient to enable the student to understand their applicability to social problems.

Professor BREWER :—

16 *Physical Geography in its relation to Civilization and History.* 1 hr. 1st term.

Lectures discussing the relations of man to the region he inhabits; natural facilities for obtaining the material necessities of civilization; geographical features facilitating commerce and defence; the relations of physical environment to the growth of civilization in its several stages; the modification of the influence of natural conditions by modern invention and discovery; illustrations of the laws from the histories of countries.

Professor A. M. WHEELER :—

\*17 *History of Europe since 1789.* 2 hrs. both terms.

Mainly political; introductory to European politics of our day.

\*18 *English History.* 3 hrs. both terms.

Political and constitutional. Particular attention is given to the origin and development of the system of self-government. The course is of especial value to those who intend to study law.

19 *English History.* 2 hrs. both terms.

This course covers two years. The object is to trace carefully the long, continuous, and, on the whole, orderly development of English political institutions. Special topics are assigned, and the best sources of information indicated. Particular attention is devoted to the early and medieval periods, and for these the work of Bishop Stubbs will be the leading authority.

## Professor C. H. SMITH :

- \*20 *American History (Colonial)*. 2 hrs. both terms.  
Exploration and early settlement of North America, and colonial history to the close of the revolutionary war.
- \*21 *American History (Political)*. 2 hrs. both terms.  
Political History of the United States to the inauguration of President Hayes.
- \*22 *American History (Constitutional)*. 2 hrs. both terms.  
An historical study of the federal and state constitutions to the present time.
- 23 *American History*. 2 hrs. both terms.  
A general course covering the colonial and national periods, intended for those who cannot give the time required by the three undergraduate courses.
- 24 *American History*. 2 hrs. both terms.  
A special course intended only for those who have a good general knowledge of our history, and who wish to make a careful study of some limited period or topic of their own selection.

## Professor ADAMS:—

- \*25 *Medieval History*. 2 hrs. both terms.  
The object of the course is to furnish an outline of the general history of Europe, and to follow the development of political, intellectual, and religious civilization through the period which lies between ancient and modern history.
- \*26 *Europe from 1520 to 1789*. 2 hrs. both terms.  
The history of Europe from the Reformation to the French Revolution. Especial attention is given to the political history.
- 27 *The Age of the Renaissance*. 1 hr. both terms.  
The founding and development of universities, the revival of learning, the awakening of the critical spirit and its application to old beliefs, the age of discoveries, and the beginning of modern physical science.  
The work consists in the careful study of assigned topics upon which reports will be made to the class. These topics are so arranged that, combined with the lectures given, they will form a continuous history of the period. In the presentation of these reports the student is expected to assume, for the occasion, the position of an instructor, and to have constantly in view in his

study of the subject, the most effective method of teaching it to a class. The criticisms and suggestions of the other members of the class and of the instructor will be directed not merely to the subject matter but also to the method of presentation.

This may be made a two-hours course by any one who wishes to do extra work in the subject, and the sessions of the class may extend to two hours.

28 *Investigation Course.*

The investigation of special topics in the field of European history. The topics to be studied may be selected by the student with the approval of the instructor. Occasional meetings of those who take the course are held for the discussion and illustration of the methods of historical investigation and criticism, and it is the object of the course to impart a knowledge of these methods as well as of the special facts investigated.

[The following course in the Divinity School is also open, by special permission of the instructor, to graduate students.]

Professor FISHER :—

29 *General Church History.* 3 hrs. both terms.

This course comprises the following topics: The nature, divisions, and sources of Church History, with a review of the literature on the subject; the Old or Preparatory Dispensation in its relation to Christianity; the condition of the Graeco-Roman world at the introduction of the Gospel; the establishment of Christianity, and the conflicts of the Apostolic Age; the spread of Christianity, including especially the conversion of the Roman Empire and of the Teutonic nations; the changes in ecclesiastical polity in the early centuries; the organization of Latin Christianity under the Papacy; the relations of the Papacy and the Church to civil society in the Middle Ages; the Protestant Reformation, with its causes and the systems of Polity adopted by the different Protestant churches; Christian life, and its characteristic features in the successive eras (including the rise and subsequent history of monasticism); the history of Christian worship.

[For Athenian Political and Legal Institutions, see below, p. 145.]

## III. ORIENTAL LANGUAGES AND BIBLICAL LITERATURE

Professor WHITNEY:—

- 1 *Sanskrit.* 4 hrs. both terms.

Instruction in Sanskrit, beginning with the instructor's Sanskrit Grammar, and passing on to Lanman's Reader, etc., and to various branches of the literature, whether Vedic or classical, as may suit the advancement and the tastes of the student.

President DWIGHT:—

- \*2 *The Epistles of Paul.* 1 hr. both terms.

A study of these Epistles as connected with the development of the thoughts of the writer.

Assistant Professor SANDERS:—

- \*3 *Hebrew (first course).* 4 hrs. 1st term.

Genesis i-iv, and with these chapters, (a) the etymological principles of the language; (b) the translation of Hebrew into English and English into Hebrew; (c) the acquisition of a moderate vocabulary.

- \*4 *Hebrew (second course).* 2 hrs. 2d term.

Genesis v-viii studied in detail, Exodus i-xix more rapidly, with especial attention to (a) the mastery of the etymology, (b) the general principles of syntax, (c) the principal prose accents.

- \*5 *Hebrew (third course).* 2 hrs. 2d term.

The critical translation of portions of the Books of Samuel in connection with (a) lectures on the history and peculiarities of the Hebrew language, and on the simple principles of textual criticism; (b) rapid sight-reading in historical Hebrew.

- \*6 *Arabic.* 2 hrs. both terms.

The Arabic version of Genesis i-iii (Lansing's Arabic Manual), and with these chapters the principles of the language; reading of selected Suras of the Qurân; lectures on early Arabian civilization, Arabic literature, the structure and contents of the Qurân, and the history of Islam.

- 7 *The Suras of the Earlier Periods.* 2 hrs. 1st term.

A rapid reading of the early Suras of the Qurân in chronological order with special reference to (a) the determination of its pre-Islamic elements, (b) a comparison of the ideas of each period, (c) the spiritual history of Mohammed.

8 *Arabic Literature.* 2 hrs. 2d term.

Reading of selections from prose and poetical literature, using a chrestomathy and selected works, with lectures on the history and literature of Arabia since the time of Mohammed.

9 *The Beginnings of Hebrew History (University Lecture).* 1 hr. 2d term.

A series of lectures on the origin and development of the Israelitish nation, including a brief survey of the history and characteristics of Semitic civilization, a consideration of the light thus thrown upon the beginnings of the Hebrew nation, and an examination, from a strictly historical standpoint, of the statements of the Biblical histories from the 12th chapter of Genesis to the close of the Book of Judges.

\*10 *The Minor Prophets.* 1 hr. both terms.

A study of this portion of the English Bible as literature, including the historical environment of each prophet, the analysis and paraphrase of his prophecy, a study of the literary characteristics, the constructive ideas and the permanent teaching of his sermons, and a survey of the prophets as related to one another.

\*11 *Old-Testament Psalm and Wisdom Literature.* 2 hrs. both terms.

This course comprises (a) a study of the Psalter, including the personal, historical and literary elements, its formation and its ideas; (b) a similar study of the books of Hebrew Wisdom, Proverbs, Job, and Ecclesiastes; (c) the place of the sages in the Israelitish polity, as distinguished from the prophets and priests; (d) Israelitish philosophy in its relation to modern thought.

12 *Hebrew Readings.* 2 hrs. both terms.

Reading at sight in selected portions of the Hebrew Bible.

13 *The Post-Exilic Prophets—Haggai, Zechariah, Malachi.* 2 hrs. both terms.

A textual and syntactical study, including also careful exegesis and consideration of the historical material connected with these prophecies.

14 *Assyrian Language.* 2 hrs. 1st term.

This course includes (a) the grammatical principles, (b) mastery of the most common cuneiform signs, (c) reading of transliterated and cuneiform text. Lyon's Assyrian Manual is used as a textbook with constant references to Delitzsch's Assyrian Grammar.

- 15 *Assyrian Historical Inscriptions.* 2 hrs. 2d term.  
The critical interpretation of the inscription of Tiglathpileser I, accompanied by a rapid reading in Schrader's transliterated texts of the other early inscriptions.
- 16 *Babylonian Historical Inscriptions.* 1 hr. both terms.  
Including inscriptions of Nebuchadnezzar, Neriglassar, and Nabonidus.
- 17 *Assyro-Babylonian History.* 1 hr. both terms.  
Including (a) lectures on Assyro-Babylonian history, (b) readings in the Book of Kings with comparison of the cuneiform inscriptions.

[The following Semitic courses in the Divinity School are open to graduate students with the consent of the instructor.]

Professor CURTIS:—

- 18 *Hebrew for Beginners.* 5 hrs. both terms.  
Elements of the Hebrew language, including the laws of the vowel changes, the structure of the verb, the formation of nouns, the acquisition of a vocabulary according to the etymological method, and the leading principles of Hebrew Syntax; with exercises in sight-reading, and the critical translation of Genesis and Exodus i-xxiii.
- 19 *Psalms and Isaiah.* 2 hrs. both terms.  
Reading of selections with special reference to Hebrew Syntax and Biblical Interpretation.
- 20 *Job.* 1 hr. both terms.  
A critical study of the poem, including reference to the structure of Hebrew Poetry and the thought of the O.-T. Wisdom Literature.
- 21 *Hexateuchal Criticism.* 1 hr. 2d term.  
An examination of the evidence for the documentary composition of the Hexateuch, and the theories of its explanation.
- 22 *Old-Testament Introduction.* 1 hr. both terms.  
The history of the Old-Testament Canon, and of the separate O.-T. books with a summary of their contents, and also an account of the text and versions of the Old Testament.



- 23 *Old-Testament Prophecy.* 1 hr. both terms.  
Study of Old-Testament Prophecy with especial reference to the Messianic element.

Professor DAY :—

- 24 *Syriac and Biblical Aramaic.* 1 hr. both terms.  
Instruction in Syriac Grammar followed by readings in the Peshito version and also in Biblical Aramaic.
- 25 *The Hebrew New Testament.* 1 hr. both terms.  
Critical reading of Delitzsch's Hebrew version of the New Testament, compared with the latest revised versions in respect to text and interpretation.

Mr. VAN NAME :—

- 26 *Japanese.* 1 or 2 hrs. both terms.  
Elements of the Japanese language, and exercises in the reading of both transliterated and native text.

#### IV. CLASSICAL PHILOLOGY

Dr. OERTEL :—

- 1 *Comparative Philology.* 2 hrs. both terms.  
Lectures on Comparative Philology, with special reference to Latin and Greek Phonology and Morphology.

Professor SEYMOUR :—

- 2 *The Greek Orators.* 3 hrs. both terms.  
A study of Greek Oratory, beginning with the orations of Isaeus, and including some of the private orations of Demosthenes, with reference to Athenian life and law, as well as to the development of Attic eloquence.
- 3 *Pindar and the Lyric Fragments.* 2 hrs. 1st half year.  
With reference to poetic forms, the relations of the colonies to the mother cities of Greece, the festal gatherings, and their importance, etc.
- 4 *Homer.* 2 hrs. 2d half year.  
A critical but familiar interpretation of portions of the Odyssey.

- \*5 *Homer.* 2 hrs. 1st term.  
Introduction to the critical study of Homer. Lectures on the history of Homeric study, Epic poetry, the composition and transmission of the poems, life in the Homeric times in its various aspects. Homeric language and verse. Interpretation of the first books of the Iliad.
- \*6 *The Phædo of Plato.* 2 hrs. 1st term.  
Introduction to the literary and philosophical study of Plato; observing carefully the dramatic character of the work, the connection of thought, and the marks of division in the argument, with special attention to the characteristics of Plato's style.
- \*7 *Theocritus.* 2 hrs. 2d term.  
The bucolic and dramatic idyls, the addresses to Ptolemy and Hiero, and the more important of his other poems will be read, with a comparison of the various imitations, and a study of the artistic composition of each poem.
- \*8 *Aristotle's Nicomachean Ethics.* 2 hrs. 2d term.  
Books i-iv and x, with a study of Aristotle's methods of research and statement.

Mr. KITCHEL :—

- \*9 *Thucydides ; the Sicilian Expedition.* 2 hrs. 2d term.  
Selection from Books vi and vii. Special attention is paid to the characteristics of Thucydides as a writer of history, to the topography involved, and to the relation of the Sicilian Expedition to the history of Greece.

Assistant Professor CLAPP :—

- \*10 *Aristophanes.* 2 hrs. 1st term.  
The Birds and Frogs. The plays are studied chiefly from the literary point of view, and questions of metre and scenic antiquities are discussed only so far as may help to the fuller appreciation of what is read. The peculiarities of the Old Attic Comedy are analyzed, and the plays contrasted with Roman and modern works.
- \*11 *Homer.* 2 hrs. 2d term.  
In this course from 6000 to 8000 lines of the Iliad will be read, including all the most important portions of the work. The principal object is to give the student a clear and comprehensive idea of the poem as a whole, but the last six books will be discussed

with special reference to some recent views of the origin of the Iliad. Considerable attention is given to the correct and intelligent reading aloud of the Greek text.

Assistant Professor GOODELL :—

- \*12 *Sophocles.* 2 hrs. 1st term.  
The *Oedipus Rex*, with special attention to the artistic form, as in dramatic construction and in the use of metres.
- \*13 *Athenian Political and Legal Institutions.* 2 hrs. 2d term.  
An introduction to the subject. Aristotle's *Athenian Constitution* is made the basis of the work ; this is supplemented by lectures and private reading. A knowledge of German or French or both is an advantage, but is not required.
- \*14 *Topography and Monuments of Athens.* 1 hr. both terms.  
The object of the course is to gain as good an idea as the time allows of the external appearance of ancient Athens and Attica. Photographs, plans, the descriptions of travelers, and the results of recent excavations are studied partly in class and partly in private. The course includes, therefore, an introduction to Greek architecture, and, in connection with the Parthenon and other temples, some attention is given to sculpture.

Assistant Professor REYNOLDS :—

- \*15 *Euripides.* 2 hrs. both terms.  
The *Alcestis* and *Hippolytus*, *Bacchae*, *Iphigenia in Aulis*, *Ion*, and *Suppliants*. This course includes a systematic study of Euripides as a poet, with lectures on scenic antiquities, metres, and mythology.
- \*16 *Aristotle's Poetics.* 2 hrs. 1st term.  
Reading and discussion of Aristotle's opinions and principles, with illustrations from modern literature.

Professor PECK :—

- 18 *Lucretius.* 2 hrs. 1st half-year.
- 19 *Pliny's Letters.* 2 hrs. 2d half-year.
- \*20 *Early Latin.* 1 hr. both terms.  
Studies in ante-classical forms, construction, and literature, based largely on Allen's *Remnants of Early Latin* and Merry's *Fragments of Roman Poetry*.

- \*21 *Cicero.* 2 hrs. both terms.  
Familiar Letters, de Oratore, pro lege Manilia.
- \*22 *Hexameter Poetry.* 3 hrs. 2d term.  
Ennius, Lucretius, Vergil (Georgics), Horace (Epistles).

Professor H. P. WRIGHT :—

- \*23 *Juvenal and Martial.* 2 hrs. 1st term.  
Satires i, iii, iv, v, vii, viii, of Juvenal, with selections from Martial, with special reference to a study of the private life of the Romans.

Professor MORRIS :—

- 24 *Historical Syntax.* 1 hr. both terms.  
Principles and methods of the historical syntax of the Latin modes and tenses ; discussion of text-books and of typical special investigations ; study of a single group of constructions, probably the *quod* and *quia* clauses.
- \*25 *Plautus.* 2 hrs. 1st term.  
The *Captivi*, with special work on metres and on the language and style.
- \*26 *Reading at sight. Prose.* 1 hr. 1st term.  
Readings in the later writers not commonly included in the college course. The selection is left in part to the class. The sessions will last two hours and no outside work will be required.
- \*27 *Reading at sight. Poetry.* 1 hr. 2d term.  
Readings in the later poets. Similar to the preceding course.

Dr. MOORE :—

- \*28 *Latin Composition.* 2 hrs. both terms.  
Much time will be given to the reading of Erasmus's Colloquies. Conversation and original composition.

[The Classical Club meets on one evening every week, for the purpose of reading and discussing the work of some classic author, with informal reports and papers on topics in the field of Greek and Latin Philology.]

## V. MODERN LANGUAGES AND LITERATURES

Professor LUQUIENS :—

- \*1 *Old French.* 1 hr. both terms.  
Bartsch and Horning as a basis ; Chanson de Roland ; Roman de Rou ; Roman de la Rose ; Aucassin et Nicolette.
- \*2 *Course of Conversation.* 2 hrs. 1st term.  
Topic : the French Revolution.
- \*3 *Course of French Literature.* 2 hrs. 1st term.  
The xvi<sup>th</sup> century ; Darmesteter and Hatzfeld's *Seizième Siècle* is used as text-book.
- \*4 *French Literature of the XIX<sup>th</sup> Century.* 2 hrs. 2d term.  
Chateaubriand ; the Romanticists ; the historians.

Dr. LANG :—

- 5 *Provençal.* 1 hr. both terms.
- 6a *Spanish, elementary course.* 3 hrs. both terms.
- 6b *Spanish, advanced course.* 1 hr. both terms.  
Epic poetry ; early drama ; historic grammar.
- 7a *Italian, elementary course.* 3 hrs. both terms.
- 7b *Italian, advanced course.* 1 hr. both terms.  
*Divina Commedia* ; early renaissance ; historic grammar.

Assistant Professor McLAUGHLIN :—

- 8 *Dante.* 2 hrs. both terms.  
The *Vita Nuova*, and selected cantos of the *Commedia*.

Assistant Professor CAMERON :—

- 9 *Molière, Life and Works.* 1 hr. both terms.  
(a) Theories of Molière's life, (b) Dramatic indebtedness, (c) Dramatic development, (d) Critical study, (e) Purpose of his social satire, (f) Imitators. Collateral reading. Individual papers.
- 10 *The Anecdotic History of the Seventeenth Century.* 1 hr. 1st term.  
Letters, Memoirs, Society.

## Professor PALMER :—

[Graduate instruction in other than these specified subjects relating to the history of the German language and of German literature is given as far as may be feasible to individual students according to their several attainments and requirements.]

- 11 *Gothic.* 1 hr. both terms.  
Braune's Grammar and Heyne's Ulfilas.
- 12 *Introduction to Germanic Philology.* 1 hr. both terms.
- \*13 *Schiller, Works and Life.* 2 hrs. both terms.  
Rapid reading of poems, plays, and prose writings of Schiller, with some investigation of his influence on German literature.
- \*14 *Goethe, Works and Life.* 3 hrs. both terms.  
After an outline study of Goethe's life and development in connection with his lyric poems, his early prose writings, and his principal dramas, particular attention will be given to Faust I and II, the later prose works, and Goethe's important utterances in letters, journals, and conversations.
- \*15 *History of German Literature since 1740.* 2 hrs. both terms.  
Beginning with the time of Klopstock, the development of the literature will be followed as near to the present as is feasible, with special attention to the Classical Period and the Romantic School, characteristic authors and works, and a summary view of the literature since 1832.

## Assistant Professor GRUENER :—

- 16 *Middle High German (advanced course).* 2 hrs. both terms.  
A course in rapid reading with a view to an acquaintance with the literature of the Middle High German epic and lyric poets. This year Hartmann's Iwein, Gottfried's Tristan and selected portions of Minnesangs Frühling will be read and interpreted.
- \*17 *Middle High German.* 2 hrs. both terms.  
Hartmann; Nibelungenlied; selected poems of Walther von der Vogelweide. Lectures and papers.
- \*18 *German Prose.* 2 hrs. both terms.  
A course in rapid reading. Selections from biography, history, and critical essays.

Dr. OERTEL :—

\*19 *German Composition and Conversation.* 2 hrs. both terms.

For practice in speaking and writing. Translation into German of narrative prose and of selections from history and literature. Special topics are assigned for discussion in German. This course is conducted in German.

Dr. DAHL :—

\*20 *Norwegian and Danish.* 2 hrs. both terms.

The elements of the language learned inductively by reading selections from the writings of modern authors. The course is intended more especially for those who make a scientific study of English, or those who wish to obtain a general knowledge of the Teutonic languages.

\*21 *Old Norse (Icelandic).* 1 hr. both terms.

Vigfusson and Powell's Icelandic Prose Reader.

\*22 *Swedish.* 1 hr. both terms.

Reading of selections from Tegnér's poems and the works of modern authors.

Professor LOUNSBURY :—

23 *English Literature.*

The English literature of the latter half of the xivth Century, embracing Chaucer, Gower, and Wycliffe.

Professor BEERS :—

\*24 *English Poetic Masterpieces.* 2 hrs. both terms.

Critical readings in the class-room in the text of the Canterbury Tales, the Faery Queene, the principal plays of Shakespeare, and the Poetry of Milton.

\*25 *History of the English Drama.* 2 hrs. both terms.

The examination of representative tragedies, comedies, histories, farces and masques from Marlowe to Sheridan, with some attention to modern verse-dramas by Byron, Shelley, Browning, Tennyson, Swinburne, etc.

\*26 *History of English Romanticism from 1726 to 1890.*

1 hr. both terms.

This course is designed for special students of literary history. The instruction is given almost entirely by lectures, and examinations are held upon a somewhat extensive course of assigned reading.

## Professor Cook :—

- 27 *Theories of Poetry.* 2 hrs. 2d term.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, dramatic, and lyric. Discussions and papers on the basis of standard works, such as Aristotle's *Poetics*, Sidney's *Defense of Poesy*, Addison's *Criticisms on Paradise Lost*, Boileau's *Art of Poetry*, Lessing's *Laokoon*, and others of similar character.

- 28 *Old English Poetry.* 1 hr. 1st term.

The texts used are Judith (Cook's edition), *Elene* (Kent's edition), and *The Battle of Maldon* (Sweet's Reader). These are read, their place in the literature examined, and questions of authorship, date, and textual criticism discussed. Ten Brink's and Wülcker's *Histories of Old English Literature* are constantly used for reference.

- 29 *Old English Grammar.* 1 hr. 2d term.

An exhaustive grammatical examination of some prose text is made, on the basis of Cook's *Phonological Investigation of Old English* and edition of Sievers' *Grammar for Phonology*, of the latter for *Inflection*, and of March's *Grammar for Syntax*.

- 30 *Historical English Prosody.* 1 hr. 1st term.

Schipper's *Englische Metrik* is adopted as the basis of study, but reference is made to the discrepant views of other authorities.

- 31 *Middle English Grammar.* 1 hr. 2d term.

An outline of Middle English Phonology and Inflection is given by means of lectures, and the knowledge thus gained is applied in a grammatical study of Chaucer, on the basis of ten Brink's Chaucer's *Sprache und Verskunst*.

- \*32 *History of English Literature.* 2 hrs. 1st term.

An outline of the subject, on the basis of Brooke's *Primer*, Taine, Morley's *First Sketch*, and ten Brink's *Early English Literature*, supplemented by outside reading. Frequent preparation of brief papers on assigned topics.

- \*33 *Chaucer.* 2 hrs. 1st term.

Reading of selected *Canterbury Tales*, chiefly as literature.

- \*34 *Old and Middle English.* 2 hrs. both terms.

An elementary course in the beginnings and earlier development of the English language and literature. Examination of the various elements of the Modern English vocabulary, and especially



- of the Saxon or Germanic element. Translation of Old English prose. Philological interpretation of selected passages by the instructor. Sweet's Anglo-Saxon Reader; ten Brink's Early English Literature; Cook's Sievers' Old English Grammar; Bede's History; Pauli's Life of King Alfred. Reading of selections from Chaucer and other Middle English writers for linguistic purposes.
- \*35 *English Essayists.* 2 hrs. 2d term.  
Study of the opinions and style of selected prose authors, ranging from the Elizabethan era to the present. Frequent preparation of brief papers on assigned topics.
- \*36 *Shakespeare.* 2 hrs. 2d term.  
Critical study of a few selected plays. The Leopold edition of Shakespeare; Moulton's Shakespeare as a Dramatic Artist; Schmidt's Shakespeare Lexicon; annotated editions of single plays, etc. Frequent preparation of brief papers on assigned topics.
- \*37 *Bacon.* 2 hrs. 1st term.  
Bacon's Essays and Advancement of Learning. Study through paraphrase and amplification. Bacon's character, opinions, and style. His place in Elizabethan literature. Frequent preparation of brief papers on assigned topics.
- \*38 *Tennyson.* 2 hrs. 1st term.  
Critical study of selected poems. Tennyson's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- \*39 *Browning.* 2 hrs. 2d term.  
Critical study of selected poems. Browning's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- \*40 *American Literature.* 2 hrs. 2d term.  
Study of selected authors, such as Emerson, Hawthorne, and Lowell, with outside reading in authors or works not undertaken in class.

Assistant Professor McLAUGHLIN:—

- 41 *Restoration Literature.* 1 hr. both terms.  
Some topics in Restoration Literature that center in Dryden.

## VI. NATURAL AND PHYSICAL SCIENCE

Professors BRUSH and PENFIELD, and Mr. PIRSSON :—

1 *Mineralogy.*

Laboratory work and blowpipe analysis and the simple chemical methods for testing minerals. Laboratory work in determinative mineralogy. Lectures in descriptive mineralogy. Lectures in crystallography, supplemented by practical work in the measurement and calculation of crystals, and the determination of their optical and physical properties.

2 *Lithology (including Microscopical Petrography).*

History, origin and classification of igneous rocks. Metasomatic and dynamic changes, including effects of dynamo-metamorphism. Laboratory methods of determination and study, chemical and microscopical. Field excursions will be offered from time to time. The work is carried on mostly in the laboratory, with access to collections, and the course is open only to those whose previous training in Mineralogy and Geology has been sufficient to enable them to pursue the subject advantageously.

Professor WILLIAMS :—

3 *History of Organisms.*

2 hrs. both terms.

An introduction to the study of the geological history and evolutions of organisms; including a discussion of the principles of the formation, succession, distribution, and classification of geological deposits,—the nature of geographical conditions as environment for organisms,—the nature of the successive modifications of the morphological characters of organisms and the theories explaining them, as illustrated by the facts of palaeontology.

4 *Special Geology.*

2 hrs. both terms.

The study of special problems of Geology, by reading memoirs and treatises, by the examination of geological materials and by field work, with the preparation of essays and detailed reports.

The work for each student is adapted to his individual tastes, previous preparations, and aims. For the general student it is intended as a training in accuracy of observation and in precision of noting and recording facts observed; for those seeking a full knowledge of the science, it will serve as a training in the methods of scientific investigation and as a beginning in the acquirement of the facts of the science.

Professor E. S. DANA :—

\*5 *Mineralogy and Crystallography.* 2 hrs. both terms.

Practical study of mineral species by means of blowpipe analysis and other methods ; mathematical study of crystals by the methods of analytical and spherical trigonometry, as also of their optical properties. The time is divided about equally between the two parts of the subject.

6 *Descriptive Mineralogy.* 1 hr. both terms.

Advanced course in the study of mineral species.

Assistant Professor BEECHER :—

7 *Invertebrate Palaeontology.* 2 to 4 hrs. both terms.

1. The study of extinct fauna by means of collections of fossils from typical localities.

2. Systematic study of the structure, development, and affinities of one or more classes of fossil animals.

In the laboratory work attention is given to modern methods of preparation and preservation of specimens. Open to those having some previous knowledge of Geology and Zoology.

Professor A. W. WRIGHT :—

\*8 *Physics.* 2 hrs. both terms.

Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light and electricity, each exercise occupying two hours. As introductory to the laboratory practice, the exercises during a portion of the first term, consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments, and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises. Kohlrausch's Physical Measurements ; Glazebrook and Shaw's Practical Physics ; Stewart and Gee's Practical Physics ; Ayrton's Practical Electricity ; Kempe's Handbook of Electrical Testing ; Everett's Units and Physical Constants, etc.

9 *Experimental Physics.*

Direction of practical work in the Sloane Physical Laboratory, with instruction in the principles and methods of physical investigation, the processes and instruments of measurement, and the methods of computing and reducing results of observations. Special attention is paid to practical measurements in optics, electricity, and magnetism. The student is expected to make original investigations an important part of his work, and has the free use of the laboratory facilities for carrying them on.

The Laboratory is thoroughly equipped for the experimental study of Physics, and for the prosecution of physical researches.

Professor HASTINGS :—

10 *Physics.*

Laboratory work, supplemented by lectures on the theory of observation, with the method of least squares. Each year, some special department of physics will be selected for detailed treatment in a course of lectures and conferences. Lectures on the theory of electricity and electrical instruments occupy six months. The use of the laboratory is at the command of the student at all times.

Professor JOHNSON :—

11 *The Chemical Physiology of Vegetation.* 2 hrs. first term.

The composition and vital processes of commonly cultivated Plants.

12 *Agricultural Chemistry.* 2 hrs. 2d term.

The Atmosphere, Water, and Soil, in their relations to farm crops; Tillage; Fertilizers; Rotation of crops; Irrigation; dairy chemistry; stock-feeding.

Professor GOOCH :—

\*13 *Experimental Inorganic Chemistry.*

3 exercises both terms.

Practical laboratory work, lectures, and written exercises. An introduction to elementary chemical theory, the use of symbols and formulae, and the descriptive study of the elements and their compounds.

\*14 *Experimental Organic Chemistry.* 3 exercises both terms.

An introduction to the study of the compounds of carbon. Laboratory work with lectures. Open only to those who have previously covered the ground of Course 13.

\*15 *Analytical Chemistry (first course).*

3 exercises both terms.

Laboratory practice in the ordinary processes of qualitative analysis, with lectures. Open to those who have previously covered the ground of Course 13.

\*16 *Analytical Chemistry (second course).*

exercises both terms.

Laboratory practice in the simpler methods of volumetric and gravimetric quantitative analysis. Open to those who take Course 15, or have taken it previously.

17 *Analytical Chemistry (third course).*

3 exercises both terms.

Laboratory practice and the study of the more complex or special problems of quantitative analysis.

18 *Theoretical Chemistry.*

1 hr. both terms.

The reading and discussion of modern theories and current chemical doctrines. Open to students who have had sufficient preliminary training.

19 *Original Work and Research.*

The facilities of the Kent Chemical Laboratory with the opportunity to engage in special lines of investigation under supervision are placed at the disposal of students sufficiently advanced to undertake such higher work.

In these courses a single laboratory exercise lasts two hours at the least, and in all courses involving laboratory work a special fee is charged to cover the cost of materials used.

Assistant Professor WELLS :—

*ANALYTICAL CHEMISTRY.*

The analytical laboratories are open to students in term time from 8.30 to 1, and from 2 to 5 o'clock every week-day except Saturday. The greater part of the instruction is given in the laboratory to each student separately, but the various classes have, in addition, one or two familiar lectures or recitations a week, in connection with the studies pursued in the laboratory.

20 *Qualitative Analysis.*

1st term.

Embraces a study of the commonly-occurring elements in their qualitative relations, and includes a systematic course of analysis for the same. A good knowledge of elementary chemistry is a necessary preparation for this. If desired, the course will be extended to include a study of many of the rare elements.

21 *Quantitative Analysis.*

Open only to those who have taken course 20 or its equivalent.

(a) *Gravimetric Analysis.* Second term. Embraces a series of exercises involving a considerable variety of important methods.

(b) *Volumetric Analysis*. First term. This follows the gravimetric analysis. It includes the most important and typical methods.

22 *Advanced Quantitative Analysis*.

(a) *Ultimate Organic Analysis*. First term.

(b) *Metallurgical Chemistry*. The analysis of ores, fuels, fluxes, alloys, metals and other furnace products.

(c) *Mineralogical Chemistry*. The analysis of minerals for scientific purposes.

23 *Metallurgy and Assaying*. 2d term.

A course of lectures on elementary metallurgy, followed by a short course of demonstrative lectures on gold and silver assaying, with the practical application of assaying to a few typical ores.

24 *Technical Gas Analysis*. 2d term.

A short practical course, including the principal methods.

25 *Investigations in Inorganic Chemistry*. Both terms.

Opportunities are offered to those who have had sufficient preparation to make researches on analytical methods, the preparation and investigation of chemical compounds and other scientific problems.

In addition, instruction is given, when desired, in Vapor-Density Determination, Spectroscopic Analysis, and in other physical methods used in connection with chemistry.

Mr. COMSTOCK :—

26 *Organic Chemistry*.

Graduates without previous training in organic chemistry are received into the undergraduate course of lectures and recitations. Those with sufficient laboratory experience in general and analytical chemistry have the opportunity to familiarize themselves with the general synthetic methods of organic chemistry, and may afterwards undertake such research work as seems best.

Professor EATON and Dr. SETCHELL :—

*Botany*.

At present there are no facilities for the profounder study of Vegetable Physiology. Structural Botany is taught in a practical way to the extent of preparing and examining microscopic specimens of the various tissues and elements found in phænogams and cryptogams, including the use of the ordinary solvents, dyes,

reagents, and mounting media used in this study. For the study of the North American Flora generally, and the different orders of cryptogams with regard to their identification, distribution and uses, the facilities are excellent, and though the botanical collections are still private property, they are accessible under proper restrictions to students who are qualified to consult them.

**\*27 *Pteridology and Bryology.* 2 hrs. both terms.**

This course begins with practical work in the dissection and examination of vegetable tissues, with especial reference to the structure of ferns and mosses. After some facility has been gained in this kind of work, the time is devoted to the examination of as many mosses as possible, with a view to becoming familiar with the genera and with a large number of species. Those who take this course are expected to devote considerable time to field-work and to making collections for their own use. The course is limited to those who have taken a preliminary course in the study of flowering plants.

**Professor VERRILL :—**

**28 *Zoology.***

Laboratory practice, recitations, readings, and lectures. The laboratory work is varied according to circumstances, in order to accommodate, as far as possible, those students who may wish to pursue special branches. A large part of the time is usually devoted to Comparative Anatomy, Morphology, and Systematic Zoology. Ample collections in the Peabody Museum, representing all classes of animals, are available for instruction, while the proximity to the sea makes it easy to provide fresh or living examples of most classes of marine animals for study and dissection.

**Professor S. I. SMITH :—**

**\*29 *Elementary Anatomy and Histology.* 4 hrs. 1st term.**

Four exercises, of a minimum of two hours each. Laboratory work and informal lectures. The time is devoted principally to dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the rudiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations.

\*30 *Comparative Anatomy and General Biology.*

Laboratory instruction is given with special reference to preparation for medical studies or as a preparation for further biological study and investigation. The instruction is adapted as far as possible to the special wants of the individual student.

During the last part of the second term, graduate or special students may attend the short course of lectures on embryology, with special reference to human morphology, given to undergraduates of the Sheffield Scientific School in the course in biology.

Professor CHITTENDEN :—

31 *Physiological Chemistry and Physiology.*

Graduate students having sufficient knowledge of analytical and organic chemistry and elementary physiology are received into the Sheffield Biological Laboratory at the beginning of the academic year, where they can pursue a course in physiological chemistry, physiology, and toxicology, extending throughout the entire year. The course necessitates, on an average, four hours of laboratory work per day, and attendance on lectures and recitations three or four times per week. Opportunities are also afforded for the carrying on of original investigations, either in physiological chemistry or experimental toxicology, and to students qualified for such work the laboratory is open during the entire day.

Students desirous of studying any special subject in physiological chemistry and having but a limited amount of time are also received, provided they are qualified by previous work to pursue the study advantageously.

## VII. PURE AND APPLIED MATHEMATICS

Professor NEWTON :—

1 *Analytical Statics.*

The dynamics of a Particle and of a System of Particles.

2 *Higher Geometry.*

\*3 *Integral Calculus and Mechanics.* 3 hrs. both terms.

Mean values and probability; differential equations; analytical statics and dynamics.



- \*4 *Shooting Stars and Meteors.* 1 hr. both terms.  
The mathematical theories of these bodies, and the treatment of the observations of them.

Professor CLARK :—

- 5 *Determinants*, with applications.  
6 *Theory of Curves and Surfaces.*  
7 *Definite Integrals ; Differential Equations.*  
8 *Kinematics of a Rigid Body.*

Professor GIBBS :—

- \*9 *Vector Analysis.* 2 hrs. 1st term.  
Elementary course, in which the simpler problems of geometry, kinematics, and mechanics are treated by vector methods. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's.
- \*10 *Vector Analysis.* 2 hrs. 2d term.  
Advanced course, including differentiation with respect to position in space, the theory of the potential and allied functions, and that of linear vector functions. This course is especially designed for an introduction to the study of mathematical physics, and is open only to those who have taken the preceding.
- \*11 *Elliptic and Parabolic Motion with Computation of Orbits.* 2 hrs. both terms.  
The analytical developments will be made in the vector form.
- 12 *Electro-Magnetic Theory of Light.* 2 hrs. both terms.  
This course will commence with the general theory of harmonic motion and its representation by complex scalar and vector quantities. The laws of electrodynamics are then applied to the phenomena of the propagation of light in isotropic and aeolotropic media, and its reflection at a surface between two such media, with the dispersion of colors. This course is supplementary to one on Electricity and Magnetism (based on Maxwell's Treatise) given in the year '91-'92, which will probably not be repeated until the year '93-'94.

13 *Theoretical Thermodynamics.* 2 hrs. both terms.

This course consists of two distinct parts. The first relates entirely to the sensible properties of matter, being a development of the consequences of the two fundamental laws of thermodynamics, as affording a general theory of physical and chemical equilibrium, and as giving shape to the investigation of the sensible properties of matter. The second part is essentially an application of the theory of probabilities to molecular mechanics, in which the notions of temperature and entropy and the second law of thermodynamics are deduced from *a priori* considerations.

Professor C. B. RICHARDS:—

*MECHANICAL ENGINEERING.*

This course, arranged for candidates for the degree of Mechanical (or Dynamical) Engineer, is also open to special Graduate Students, who are allowed in certain cases to take selected parts. The leading topics are:

14 *Applied Mechanics.*

Including graphical methods in applied kinematics, and in the investigation of mechanisms working with friction; graphical determinations of the accelerations of the moving parts of machines; the strength of materials as affecting the proportions of machine elements; the applications of the principles of hydraulics to the construction and working of turbines and pumps.

15 *Thermo-Dynamics.*

Applications to the compound steam-engine, air compressors and compressed air motors, engines worked by volatile vapors, refrigerating machines, the warming and ventilation of buildings.

16 *Machine Design.*

In this course the student is engaged in practical exercises under the guidance of the professor in charge, investigating machinery, and designing and making working-drawings, specifications, and estimates for machines and manufacturing plant. In addition to the study of machines in general, either of the following subjects will at the option of the student receive particular attention: (a) Marine engineering; (b) Railway machinery; (c) Pumping machinery and plant; (d) Machinery and plant for manufacturing. The student is required to make complete drawings, from new designs, of at least one important piece of machinery under one of these subjects. A compound marine engine and boilers, a locomotive, a turbine, driving centrifugal pumps, a blowing-engine for an iron-furnace, are examples.

Candidates for the degree of Mechanical Engineer are required to take also a course in Mathematics, to sustain a final examination, and to present a satisfactory thesis on a subject approved by the professor in charge of the course.

A course in applied electricity, and, when the facilities of the physical laboratory permit, a course of laboratory work under the superintendence of the professor in charge; also, lectures on Industrial Legislation and Finance, and lectures on the higher Mathematics, are open to all students in this course.

Professor PHILLIPS :—

- 17 *Map-Projection and Curve-Tracing.* 1 hr. both terms.

Discussion and application of the principles of the Perspective, Orthomorphic, and Equivalent Projections of the Sphere. Method of tracing curves by the intersection of mathematical surfaces.

- \*18 *Analytical Geometry.* 2 hrs. both terms.

An extension of the course in the plane and solid Analytical Geometry of Sophomore year, including the use of determinants and trilinear coördinates; methods of tracing algebraic and transcendental curves; study of machines for tracing curves and of models of mathematical surfaces.

Professor DuBois :—

*CIVIL ENGINEERING.*

This course offers instruction for advanced graduate students as well as for those students who may be regular candidates for the degree of Civil Engineer. It embraces the following topics:

- 19 *Mechanics applied to Engineering.*

Including a course in Hydraulics, with reference to the various problems which arise in connection with water-supply, water-power, or irrigation; the efflux of water, flow through orifices and mouthpieces and over weirs, simple and submerged; questions of overflow and land damage; the effect of friction, contraction, enlargement, bends, valves, etc.; measurements of the discharge of pipes, rivers, and streams; the theory and design of water-motors; a course in Thermo-dynamics and its practical application to hot-air, gas, and steam engines.

- 20 *Surveys and Geodesy.*

Methods of observation, base measurements, triangulation field work; theory of least squares, adjustment of observations, and computation of geodetic latitudes, longitudes, and azimuths.

## 21 *Construction and Design.*

Strength and properties of materials, construction and design of bridges, roofs, foundations, retaining walls, dams, and embankments, masonry, arches, sewerage and drainage, improvement of rivers and harbors, specifications and contracts, and the preparation of designs and working-drawings.

Candidates for the degree of Civil Engineer are required to take, in addition, a selected course in Mathematics, Practical Astronomy, and when the facilities in the physical laboratory permit, a course of laboratory work, under the superintendence of the professors in charge. They are also required to sustain a final examination, and to present a satisfactory thesis accompanied by appropriate designs, upon a subject approved by the professor in charge of the course.

To special students, not candidates for the degree of Civil Engineer, a selection of special topics is allowed. The lectures of the Department upon Railroad Administration, Industrial Legislation, and Finance, and upon the higher Mathematics, are open to all the students in this course.

## 22 *Practical Astronomy.*

Instruction, especially adapted to candidates for the degree of Civil Engineer, is given in Practical Astronomy applied to Geodesy, using as guides the treatises of Loomis and Doolittle. The practical instruction embraces the use: (1) of the Theodolite or Surveyor's Transit for determining time, latitude, and azimuth; (2) of the Sextant and Engineer's Transit with solar attachment.

The time devoted to the subject will vary with the taste and purpose of each student and the time at his disposal. But for the degree of Civil Engineer, a good familiarity with the instruments named in 19 and 20, as well as with the corresponding computations and practical problems, is required.

Assistant Professor BEEBE :—

### \*23 *Surveying.*

2 hrs. both terms.

*Field Work* : 1st term : Land surveying ; use of chain, compass and surveyor's transit ; construction of verniers and determination of instrumental errors. 2d term : Leveling and Topography ; use of surveyor's level and plane table ; determination of grade lines, contour, cut and fill.

*Office Work* : during the winter ; platting surveys from field notes ; map drawing, plane and topographical ; shading, lettering,

and enlargement of maps; calculations of areas, use of traverse tables.

*Recitations* during the year from Gillespie's or Johnson's Surveying.

**\*24 *Practical Astronomy.* 2 hrs. 1st half-year.**

Observatory work with astronomical transit and chronograph for determination of sidereal and standard time; and with sextant and theodolite for determination of latitude and azimuth. Numerical computations for reduction of observations. Recitations from Loomis's Practical Astronomy.

**\*25 *Geodesy.* 2 hrs. 2d half-year.**

Measurements and computations for a secondary triangulation from a base line of the U. S. Coast Survey; reductions to center; distribution of errors; measurement of a base of verification.

Open only to those who have taken course 23, or its equivalent.

**\*26 *Descriptive Astronomy.* 1 hr. both terms.**

Young's General Astronomy; Clerke's History of Astronomy.

Mr. DUTCHER :—

**\*27 *History of Mathematics.* 1 hr. 1st term.**

Rapid review of the development of mathematical ideas from Egyptian and Early Greek down to modern times. Ball's History of Mathematics, with supplementary work in investigation.

**\*28 *Elementary Geometry. (Modern.)* 2 hrs. 1st term.**

Properties of the point, line, and circle, by modern methods.

Mean Position; Inversion; Pole and Polar; Radical Axis; Duality; Harmonic and Anharmonic Division; Involution.

**\*29 *Modern Geometry.* 2 hrs. 2d term.**

Projective properties of the point, line, and conic. Cremona's Projective Geometry.

[For applications of Mathematics to Insurance and Political Science, see Political and Social Science, courses 14 and 15.]

## VIII. THE FINE ARTS

For these courses, see page 165.

## IX. MUSIC

Professor STÖCKEL :—

- \*<sub>1</sub> *Harmony.* 2 hrs. both terms.  
Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody. This course meets but *once* a week in a recitation of 2 hours.
- \*<sub>2</sub> *Counterpoint, Canon, Fugue.* 2 hrs. both terms.  
Counterpoint of the I, II, III, and IV orders. Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.
- \*<sub>3</sub> *Forms.* 1 hr. both terms.  
Motive, Phrase, Period. Part-Song, Rondo, Sonata. Orchestral Forms.  
Lectures are given on the *History of Music, sacred and secular. Aesthetics. Analysis:* Oratorio, Opera, Chamber-music, Symphony. *Biography:* Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

Since the beginning of the present academical year special students have also been admitted as members of the classes in music. Information with reference to admission and the courses of study may be obtained from the Professor of Music.

# SCHOOL OF THE FINE ARTS

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## COUNCIL

The Council of the School consists of the President of the University, the permanent officers of the School, and four members by election : Donald G. Mitchell, LL.D., Edward E. Salisbury, LL.D., J. Davenport Wheeler, Ph.B., and William W. Farnam, M.A.

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## FACULTY

Rev. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT

JOHN F. WEIR, N.A., M.A., *Director, and Professor of Painting and Design*

JAMES M. HOPPIN, D.D., *Professor of the History of Art*

JOHN H. NIEMEYER, M.A., *Professor of Drawing*

JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*

HARRISON W. LINDSLEY, C.E., *Instructor in Perspective*

\_\_\_\_\_, *Instructor in Architecture*

G. ALBERT THOMPSON, *Librarian and Clerk*

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## ORGANIZATION AND COURSE OF STUDY

The School aims to provide thorough technical instruction in the Arts of Design, viz : Drawing, Painting, Sculpture, Architecture, and Copperplate Etching ; and to afford a knowledge of such branches of learning as relate to the Philosophy, History, and Criticism of Art. As a professional School of Art the aim is to furnish a thorough course of study in the practice of the studios, and as a department of the University to provide instruction in the Fine Arts as a constituent part of a scheme of general culture. These departments, of Practice and Criticism, may be regarded as distinct or correlative.

## THE TECHNICAL COURSE

The technical instruction, for professional students, is based upon methods well adapted to discipline the faculties and ground the pupil in the elements and fundamental principles, which constitute a grammar of Art, as a foundation for all forms of special application. This instruction is arranged as follows :

IN DRAWING, the work is distributed over a three years' course. During the first year the practice of the studio is confined to drawing from the "Antique," from plaster casts ; during the second year, to drawing from casts and the living model ; and during the third year, to drawing from the living model, nude and draped. The classes under the supervision of the Instructor in this department are the antique portrait, nude-model, sketching, and composition classes. Students showing the requisite proficiency in any class, will be advanced to the work of the second or third year according to individual ability. Instruction in this department precedes all special courses in the various branches of Art ; no pupil is allowed to enter any of the advanced classes without this necessary qualification in that degree of proficiency which is deemed essential as a preliminary ground for such studies. Lectures on the principles of decoration, as applied in the various branches of Decorative Art, are included in this department.

IN ANATOMY, instruction is given in the form of lectures, and by drawings made from specimens and casts. The lectures are divided into two courses, for elementary and advanced classes. Each course consists of twenty lectures, one lecture a week to each class, continuing through the Winter and Spring Terms. The elementary course is devoted to the study of such portions of the human body as manifestly affect the external forms, the aim being to familiarize the pupil with the characteristics of those parts, independently of their combined action in modifying the external forms. Drawings of these parts are made by the pupils, in connection with the subjects discussed by the lecturer. The advanced course includes the whole structure of the human form in its plastic anatomy and mechanism. The skeleton and muscular system are viewed as a whole, and the modification of the external forms studied in action and repose. The subjects of proportion, equipoise and motion, and expression, are studied, and original drawings required in illustration, made from life, or from Greek sculptures, by reducing the same to their anatomical structure by the imagined removal of the integument.



IN PERSPECTIVE, the instruction is likewise given in the form of lectures, divided into two courses of twenty lectures each, for an elementary and an advanced class, illustrated by examples drawn on the blackboard, illustrating the principles under discussion. The lectures are supplemented by practical exercises. The student is required to work out examples in the interim between the lectures. The elementary course includes the principles of plane geometry underlying perspective,—simple projections, or plan and elevation drawings. Objects are treated with reference to their true dimensions, as preliminary to their correct representation on a flat surface, as seen in perspective, at various distances, and from different points of view. The advanced course includes the study of shadows and reflections, and the application of the general principles of perspective to interior and exterior views. The pupil is required to work out problems in illustration of all of the principles involved in linear perspective in its application to the various branches of art.

IN PAINTING, the work is divided into an elementary and an advanced course of study. The first studies are devoted to the acquisition of a knowledge of the elements of technical practice, by painting from still-life. When the pupil has acquired some knowledge of the means in representing objects in color, as to their values and relations, the remainder of the course is given to studies of the living model, in portrait, figure, and composition. This is continued while the pupil remains in the School. The course in painting implies, on the part of the pupil, a requisite knowledge of drawing, and drawing from the living model is continued throughout the course in connection with the work in color. The practice of the studio is supplemented by illustrated lectures on Color, Chiaroscuro, Composition, and such other special topics relating to the principles and means of Art as are comprehended in its theory and practice.

IN MODELING, a course is provided, including the anatomical lectures, and drawing. The work in this branch of instruction consists in first modeling in clay, from casts of Greek fragments, the head and other extremities of the human form, and then the whole figure. When the student has sufficient command of the method and means, the rest of the course is devoted to modeling from the living subject.

IN ARCHITECTURE, the course includes drawing, as provided in that special department in its elementary instruction, as well as the course in isometric projection and perspective. Under the instructor in Architecture, studies are made from notable examples of the various orders and styles, in chronological order, with original projects in illustration to be worked out by the student. The means and methods of preparing

plans, elevations, sectional and working drawings, and perspective views in india-ink and water-color, are comprehended in the elementary part of this course. Arrangements may be made with other Departments of the University, by which students in Architecture can obtain the requisite instruction in mathematical subjects having a direct bearing on this art, including plane geometry, stone-cutting, the nature and strength of materials, and the principles of construction and engineering.

The course includes a general and comprehensive view of the historic development of the various architectures, with a comparative analysis of the same with respect to their principles of construction and decoration.

IN COPPER-PLATE ETCHING, a course is provided, and a room set apart for this special study, containing all the necessary appliances of this art, including a press.

#### COURSE IN THE HISTORY AND CRITICISM OF ART

The instruction in this department includes courses of lectures by the various Instructors of the School, arranged to include professional students in regular course, and classes from other departments of the University where it is recognized as an "elective" study.

IN THE HISTORY OF ART, the course is as follows: 1. *The Origin and Philosophy of the Art* principle—books chiefly referred to, Hegel, Lotze, Ruskin; 2. *Egyptian Art*—Perrot and Chipiez' "Histoire de l'Art de l'Antiquité," etc.; 3. *Oriental Art*, with special reference to its influence on Greek Art—Schnaase, Fergusson, Perrot and Chipiez, etc.; 4. *Greek Art*, Principles of Greek Art; Pelasgic construction, and the three orders of Greek Architecture; Greek Sculpture, including the Archaic, Pheidian, and Naturalistic Periods, and the Graeco-Roman, with recent researches at Olympia and other places; *Greek Painting*, Ceramic, Mosaic, and Mural—Winckelmann, Lessing, Ottfried Müller, J. Overbeck, Schnaase, Friedrichs, Charles Blanc, and Woltmann; 5. *Roman Art*, Fergusson, Dennis, Emil Braun, etc.; 6. *Beginnings of Christian Art*, classic sources and types; Religious Art; early Christian Painting and Iconography; early Christian Architecture—Lindsay, Fergusson, etc.; 7. *Byzantine Art*, Oriental, Christian, and Saracenic forms—Fergusson, Ruskin, etc.; 8. *Medieval Art*, Romanesque and Lombardic; Tuscan, Southern and Northern Gothic—Viollet-Le-Duc, Ruskin, Fergusson, etc.; 9. *The Renaissance*; rise of the Florentine School, and the Schools of Sienna, Umbria, Lombardy, Rome, and Venice

—Vasari, Lanzi, Kugler, Ruskin, Crowe and Cavalcaselle, Symonds, etc.; 10. *Modern Art*—Schools of Spain, Holland, Germany, France, and England; the Pre-Raphaelite, Romantic, and Impressionist movements; Art in America. The lectures are illustrated by means of the, hydro-oxygen lantern.

IN THE PRINCIPLES AND MEANS OF ART, a course of lectures is provided, fully illustrated, embracing the subjects of Line, Chiaroscuro Color, Composition, and Expression,—following the path of the artist in his work. A course of lectures discussing the technical methods of the Painter, the Sculptor, the Architect, and the Engraver, including an historic account of the technical development of these arts, is also provided.

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The regular prescribed course of study, for professional students, covers a period of three years, but pupils are encouraged to remain in the School and pursue advanced studies after the expiration of the prescribed term. The fees are at the rate of ten dollars per month, with an annual fee of five dollars. No pupil is received for a term of less than three months. The tuition fee for a fourth year's attendance is one-half the usual rate; pupils remaining for a longer period are classed as "honorary students;" as such they are exempt from the payment of a tuition fee, but are charged an annual fee of ten dollars. The School is open to both sexes; no pupil is received under fifteen years of age. All applications for admission should be made through the Director. The School opens on the 1st of October, and the closing exercises are held on the 1st of June. At the end of the School-year an exhibition of the work of the various classes of pupils is held, continuing open through the summer months.

AN ELECTIVE COURSE is provided for the Junior and Senior Classes in the Academical Department, as set forth in the Prospectus of Elective Studies in that Department of the University. Also a special course in FREE-HAND DRAWING is arranged to meet the requirements of students in the Sheffield Scientific School, extending through the first term of the College year.

Members of the Undergraduate Departments of the University may enter the Art School, and enjoy all its privileges, as "Special Students," on the payment, in advance, of an annual fee of twenty-five dollars.

CERTIFICATES are awarded to pupils remaining in the School through the regular course of three years; and the Degree of BACHELOR OF FINE ARTS is conferred by the University upon those students who have fulfilled the requirements of a prescribed course of advanced studies in the several departments of instruction, and have submitted an approved original composition in painting, or sculpture, and a satisfactory thesis on some topic relating to the Fine Arts.

Students from other Art Schools, who have passed through the requisite elementary course in art, may enter this advanced course, ending in the conferring of the above degree, on passing the requisite examinations.

The "ETHEL CHILDE WALKER PRIZE," the income from a foundation of two hundred dollars, is awarded annually, under certain restrictions, to the most deserving pupil in the professional department.

THE ART LIBRARY, containing a collection of technical hand-books, current art-periodicals, and portfolios of etchings and engravings, is open, during specified hours, for the use of students. The pupils of the School are entitled to the use of the University Library, and to such other privileges, under the usual restrictions, as are granted to students in the other Departments.

THE COLLECTIONS embrace the "Jarves Gallery of Italian Art," numbering one hundred and twenty-two paintings dating from the 11th to the 17th centuries; the "Ehrich Gallery of Dutch and Flemish Art," numbering one hundred paintings; the "Trumbull Gallery" of historical portraits and other works, numbering fifty-four pictures; a collection of contemporaneous art, numbering about fifty paintings; a small collection of original sketches by old masters; a collection of about one hundred and fifty casts and marbles, representative of the various periods of Greek

and Renaissance Art ; a valuable collection of Chinese porcelains and bronzes, loaned by Mr. Frederick Wells Williams ; a series of very valuable Belgian wood-carvings of the 16th century, deposited in the School by Mrs. A. C. Alden ; and a collection of Braun autotypes, and other reproductions, numbering about two hundred.

The Collections of the School are open daily, without charge, from 1 to 5 P. M., during term-time ; also, during the summer vacation from 9 A. M. to 6 P. M., when a fee of twenty-five cents is charged.

The Art Building was erected in 1864, by Mr. Augustus R. Street (Yale College 1812), of New Haven, at a cost of about \$220,000. The School was partially endowed, to the extent of \$75,000, by Mrs. Street, who also made other gifts in aid of its objects.

# DEPARTMENT OF THEOLOGY

## (YALE DIVINITY SCHOOL)

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### FACULTY AND INSTRUCTORS

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
- REV. GEORGE E. DAY, D.D., *Dean of the Faculty*
- REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*
- REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*
- REV. LEWIS O. BRASTOW, D.D., *Professor of Homiletics and the Pastoral Charge*
- REV. EDWARD L. CURTIS, PH.D., D.D., *Professor of the Hebrew Language and Literature*
- REV. GEORGE B. STEVENS, PH.D., D.D., *Professor of New Testament Criticism and Interpretation*
- FRANK C. PORTER, B.D., PH.D., *Professor of Biblical Theology*
- REV. ARTHUR FAIRBANKS, PH.D., *Lecturer on Social Ethics and the Philosophy of Religion*
- SAMUEL S. CURRY, B.D., PH.D., *Instructor in Elocution*
- GUSTAVE J. STOECKEL, MUS.D. (*University Professor of Music*), *Instructor in Vocal Music*
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### SPECIAL LECTURERS

- REV. ROBERT F. HORTON, M.A., of London, England, LYMAN BEECHER LECTURER, *Subject: "Verbum Dei":—The Preacher's message considered as a communication to him from God and through him to the people*
- REV. WILLIAM M. TAYLOR, D.D., LL.D., of New York, *on the Relation of the Ministry to the Missionary Enterprise*
- REV. EDWARD A. LAWRENCE, M.A., of Baltimore, Md., *on Modern Missions in the East*
- REV. J. H. W. STUCKENBERG, D.D., of Berlin, Germany, *on Modern German Theology*
- REV. JOHN HALL, D.D., LL.D., of New York City (subject to be announced)
- REV. ADOLPHUS J. F. BEHREND, D.D., of Brooklyn, N. Y., *on the Linguistic and the Philosophical Equipment of the Preacher*
- LEONARD J. SANFORD, M.D., *on the Preservation of Health*

The present annual term of study, commencing on Thursday, September 29, 1892, will continue until the third Wednesday in May, 1893, when the Anniversary and the Annual Meeting of the Theological Alumni are held. The Divinity School is open, on equal terms, to students of every Christian denomination. Blank forms of application may be obtained by addressing the Secretary of the Faculty, Professor George B. Stevens, or any of the other Professors.

#### CONDITIONS OF ADMISSION

The conditions of admission are membership in some evangelical Church, or other satisfactory evidence of Christian character, and a liberal education at some College or University, or, in exceptional cases, an equivalent preparation for theological studies. In all such exceptional cases the applicant will be examined in the Greek language, and will be expected to give evidence of his attainments in this line of study and in other branches of knowledge which shall show his fitness to pursue the theological course.

Some knowledge of the Hebrew language on the part of applicants is desirable, and for all who have made sufficient progress, advanced instruction in the Junior year is provided.

Applicants for admission from other Theological Institutions whose course of study is the equivalent of that pursued in this institution, will be received *ad eundem*. Students of every Christian denomination, in case they are possessed of the required qualifications, are admitted.

It is expected that every student will be promptly on the ground at the beginning of the session. Rooms are assigned in the order of application, but no room is reserved for any applicant who does not appear within one week after the opening of the term.

## COURSE OF STUDY

THE COURSE OF INSTRUCTION occupies three years, and is arranged in the following order :

## REQUIRED STUDIES IN JUNIOR YEAR

Professor DAY will lecture once a week on the Encyclopedia and Literature of Theology, including a survey of the various branches of Biblical Literature, and an account, more or less extended, of the prominent writers and their works in the several departments of theological science.

Professor CURTIS will give instruction five times a week in the grammatical principles of the Hebrew language in connection with the first eight chapters of Genesis ; with the use of Harper's Introductory Hebrew Method as a text-book. In addition to this preliminary work the class will read critically the remainder of Genesis and Exodus i-xxiii with the study of Hebrew Syntax with reference to Gesenius' Hebrew Grammar. Exercises are also given in sight-reading. Provision is made for the instruction of an advanced section in Hebrew, and students who so desire receive special instruction in the examination of the theories and results of Hexateuchal criticism. A course for the entire class is given in Old-Testament Introduction.

Professor STEVENS will give instruction four times a week in the Greek New Testament. The studies of the year embrace the following subjects: General Introduction to the New Testament, including the peculiarities of Hellenistic Greek, the preservation of the New Testament in manuscripts, and their use in textual criticism ; the Synoptic Gospels, studied on the basis of Mark, with special attention to the discourses and parables of our Lord ; the first eight chapters of the Acts of the Apostles ; the life and work of the Apostle Paul as recorded in the Acts and reflected in his letters, and the critical interpretation of one or more of his principal Epistles. Essays on themes connected with these studies are prepared by the students and discussed in the presence of the class.

Professor HARRIS will lecture twice a week on the Philosophical Basis of Theism, and the Self-Revelation of God.

## OPTIONAL STUDIES IN JUNIOR YEAR

Professor BRASTOW will give instruction twice a week for half the year upon the use of the topic in preaching, making Claude's Essay on the Composition of a Sermon a partial basis for the work.

Dr. FAIRBANKS will lecture twice a week for half the year on the History of Social Ethics. The effort will be made to trace the growth of the moral ideal as this was actually felt by the people. The popular



idea of duty and its sanctions, of sin, and its penalty, and the concrete duties in relation to these ideas, will be discussed with reference to their historical development. Special attention will be paid to the Hebrews, and to Old Testament ethical standards; to the social ethics of Greece; and to the influence of Christianity upon these.

#### REQUIRED STUDIES IN MIDDLE YEAR

Professor HARRIS will lecture five times a week on Systematic Theology. This course includes a full and systematic investigation of the doctrines of Christianity, and of existing questions and controversies concerning them. The subjects are treated in the following order: the Attributes of God; the Trinity; God the Creator, and His End in Creation; God's Providential Government; God's Moral Government; Sin; Redemption—the Atonement, Regeneration, Justification by Faith, the Spiritual Life; the Kingdom of Christ on Earth, its Progress and Triumph; Eschatology; the Christian Church. Examinations on the topics discussed will be connected with the lectures, and entire freedom of question and discussion at every lecture is invited.

Professor FISHER will give instruction three times a week on General Church History, embracing especially the branches of the subject which are not included under the History of Doctrine. They comprise the following topics: the Nature, Divisions, and Sources of Church History, with a Review of the Literature on the subject; the Old or Preparatory Dispensation in its relation to Christianity; the condition of the Graeco-Roman World at the Introduction of the Gospel; the Establishment of Christianity, and the Conflicts of the Apostolic Age; the spread of Christianity, including especially the Conversion of the Roman Empire and of the Teutonic Nations; the Changes in Ecclesiastical Polity in the Early Centuries; the Organization of Latin Christianity under the Papacy: the relations of the Papacy and the Church to Civil Society in the Middle Ages; the Protestant Reformation, with its Causes and the Systems of Polity adopted by the different Protestant Churches; Christian Life, and its Characteristic Features in the Successive Eras (including the Rise and Subsequent History of Monasticism); the History of Christian Worship.

Professor CURTIS will read with the class twice a week selections from the Poetical and Prophetical Books of the Old Testament. Special attention is paid to exegesis. Original work of this character is required of the students.

Professor STEVENS will lecture twice a week on Special New-Testament Introduction. In connection with this course those books of the New Testament which have not been studied in the Junior year are analyzed, their occasion, aim, and peculiarities described, and their course of thought carefully traced.

Professor PORTER will lecture twice a week for half the year on the Biblical Theology of the Old Testament. The aim is to present a view of the historical course and character of the religion of Israel; its relation to other Semitic religions; its progress in connection with the events of political history, including the last stages of pre-Christian Judaism; and its preparatory character in reference to Christianity.

Dr. FAIRBANKS will lecture twice a week for half the year on Comparative Religion. (a) Two or three types of religion among uncivilized tribes (the North American Indians and the Negroes) will be studied, and the different theories as to the origin of religion criticised. (b) Under the History of Religion, the religions of India and Persia will be studied, and on this basis the effort will be made to trace some of the laws that govern the development of religion, and the factors which tend to aid or to hinder such development. (c) The Phenomenology of Religion, including a discussion of rites and ceremonies, objects of worship, etc., and the connection with these of the real development of religion.

#### OPTIONAL STUDIES IN MIDDLE YEAR

Professor BRASTOW will give instruction twice a week for half the year, by lectures and critical exercises, upon the history of preaching and upon distinguished modern preachers. The critical exercises consist of analyses by the members of the class of the subject-matter and rhetorical style of the products of different preachers. In this way the principles of Rhetoric are applied to the work of preaching, with special reference to the cultivation of an appropriate pulpit style.

Professor STEVENS will lecture twice a week for half the year upon the First Epistle to the Corinthians with special reference to its doctrinal and practical contents. Dissertations upon topics and passages of special difficulty or importance are prepared by members of the class.

#### REQUIRED STUDIES IN SENIOR YEAR

Professor BRASTOW will give instruction five times a week, by lectures and critical exercises, in different branches of Practical Theology, as follows: he will lecture four times a week during the first half of the year on Homiletics, and twice a week will conduct a class exercise in the criticism of sermons and plans of sermons. It is proposed to make these practical exercises a prominent feature in the course. He will also give private instruction, at least once during the year, to each member of the class in connection with the criticism of sermons, and will give personal aid in the study of Homiletical and General Literature. He will lecture three times a week during the last half of the

year upon Pastoral Theology, including the calling, training, and personal and official duties of the Christian ministry, with special reference to the leadership of the church in its various practical activities as connected with the interests of the Kingdom of God. He will also conduct class-discussions of questions of practical interest relating to the work of the church.

Professor FISHER will lecture three times a week, through the year, on the History of Christian Doctrine and on Symbolical Theology. The course includes an explanation of the Origin of Theology as a Science, and a discussion of True and False Theories of the Development of Doctrine; a Survey of the Influence of Philosophy on Theology in the successive Eras; a review of Authors in the field of Theological Literature; a History of Theological Thought in the Church, in relation to the several Doctrines of the Christian system, down to the present time; an account of the Comparative Tenets of the different religious bodies into which Christendom is divided.

Professor PORTER will lecture three times a week on the Biblical Theology of the New Testament. The teaching of Jesus and the different types of Apostolic teaching are examined in their historical character and in their relations to one another and to the religious ideas of the time. The aim is both to trace the history of religious thought in the Apostolic age and to set forth the central teachings of the New Testament in their unity. The views of important writers on the subject are critically examined, and assistance is given to any who wish to pursue special studies in this department.

Dr. FAIRBANKS will lecture twice a week, on some important social problems. The aim of the course is to trace the causes of present difficulties in history, and to criticize the efforts that have been made to deal with these difficulties. Some of the topics are as follows: I. The Social Organism, different modes of social activity, and the stimuli which produce this activity. Different types of social aggregates. The relation of the individual to the social organism. II. The history of Labor in England and America, with special reference to the origin of the present industrial classes, and the present industrial difficulties. Socialism; its theory of the state, and its economic analyses. III. Pauperism and Crime. The causes of pauperism, and the history of charity and poor relief. The criminal classes; punishment and recovery of criminals; the prevention of crime.

#### OPTIONAL STUDIES IN SENIOR YEAR

Professor CURTIS will give instruction once a week in the Wisdom Literature of the Old Testament.

Dr. FAIRBANKS will lecture on the Philosophy of Religion.

## GRADUATE OR FOURTH YEAR CLASS

Into this class only those who have completed a three years' course in this or some other Theological School are admitted. It is designed to meet the wants of those who desire to pursue an advanced course of general theological study, or to apply themselves to special subjects of reading or investigation in any of the departments of theology for one year or more, under the advice and direction of the Professors and with the helps furnished by the Reference and University libraries.

From the connection of the Divinity School with the other Departments of the University, special advantages for the prosecution of linguistic and other studies are open to students preparing for service as foreign missionaries.

The following are the subjects which are pursued by the class during the present year :

I. Professor DAY : Critical reading of Delitzsch's Hebrew New Testament, compared with the latest revised versions in respect to text and interpretation.

II. Professor HARRIS : Special Studies in the Philosophy of Religion.

III. Professor FISHER : Weiss's Life of Jesus, with references to Beyschlag, Weizsäcker, and other recent authors, together with testimonies of the early ecclesiastical writers relating to the Gospels.

IV. Professor BRASTOW : Types of Preaching in the last two centuries.

V. Professor CURTIS : Orelli's Old-Testament Prophecy with references to Briggs, Riehm, Delitzsch, and other authors.

VI. Professor STEVENS : Wendt's Teaching of Jesus, with a review of other recent literature relating to the subject.

VII. Professor PORTER : A Study of the Gospel of John with reference to the question of its relation to Paulinism and to Alexandrianism.

VIII. Dr. FAIRBANKS : Modern Theories as to the Philosophy of Religion.

Members of the Graduate Class are expected to continue their studies at the Seminary during the entire year. They are furnished with rooms free of rent, and no charge is made for instruction or for the use of libraries.

## GENERAL OPTIONAL STUDIES

President DWIGHT will give a series of lectures on topics connected with the New Testament.

Professor DAY will give instruction in Syriac Grammar followed by readings in the Peshito version and also in the Biblical Aramaic

He will also read with those students who desire to become familiar with the theological literature of Germany and have made sufficient progress in the language, some standard work in German, with critical remarks and references to the ablest works on special topics.

Students of the Divinity School are admitted to the courses of instruction in the PHILOSOPHICAL DEPARTMENT OF THE UNIVERSITY, and are permitted to attend them on conditions prescribed by the Theological Faculty. These courses include the Arabic, Assyrian and Sanskrit languages. Their general character may be seen from the following selection, from the list for the current year, of some of the courses of special interest to students of theology.

Professor LADD:—*Introduction to Philosophy*—The course follows the order of topics in Ladd's "Introduction to Philosophy," which will be supplemented by the study of several of Lotze's "Philosophical Outlines," and by references to other books. *Kant Seminary*—The class meets one evening each week for the study of Kant. During the year the Critique of Pure Reason and the Critique of Practical Reason are both read. *Philosophy; Modern Pessimism*—This course consists of the critical study of Schopenhauer's "The World as Will and Idea." *Readings in Philosophy*—Several of the most recent and quickening books on the different aspects or problems of philosophy are rapidly read during the year. Assistant Professor DUNCAN:—*Advanced Psychology*—Sully's "The Human Mind" is read as a basis for examination of the principal topics in this subject. Dr. SNEATH:—*Psychology and Philosophy of Education*—A thorough study of the psychological basis of education. Dr. JACOBSON:—*Swedish Philosophy*—A careful study of the development of speculative thought in Sweden is made, with frequent reference to writers of Denmark and Norway. Mr. RUNKLE:—*British Philosophy*—The course of speculative thought in Locke, Berkeley, and Hume will be traced. Professor SUMNER:—*Finance and Politics in the History of the United States*—This course deals with the history of the United States as a field for the study of currency, banking, tariff, public finance, the history of political economy, the art of politics, the science and art of government, and industrial history. *The Historical Development of the Industrial Organisation, Social Science.* Professor FARNAM:—*The Principles of Public Finance.* A systematic survey of the means by which the expenditures of government are met, regard being had both to the economic principles involved and to the

fiscal systems of modern states. *The History of Labor Organizations*—In this course the development of associations of artisans from the origin of the guild system to the present day is traced. Professor HADLEY:—*Economics*—A general introduction to the science. *Ethics as a Political Science*—An historical study of the development of moral and legal standards in their relations to one another. *Recent Economic Discussion*—A critical study of books and monographs on selected topics of economic science. Professor A. M. WHEELER:—*History of Europe since 1789*—Mainly political; introductory to European politics of our day. *English History*. Professor C. H. SMITH:—*American History*. Professor ADAMS:—*Medieval History. Europe from 1520 to 1789. The Age of the Renaissance*. Professor WHITNEY:—*Sanskrit*. Instruction in Sanskrit, beginning with the instructor's Sanskrit Grammar, and passing on to Lanman's Reader, etc., and to various branches of the literature, whether Vedic or classical, as may suit the advancement and the tastes of the student. President DWIGHT:—*The Epistles of Paul*—A study of these Epistles as connected with the development of the thoughts of the writer. Assistant Professor SANDERS:—*Arabic. The Suras of the Earlier Periods. Arabic Literature. The Beginnings of Hebrew History. Assyrian Language. Assyrian Historical Inscriptions*. Mr. VAN NAME:—*Japanese*—Elements of the Japanese language, and exercises in the reading of both transliterated and native text. Professor SEYMOUR:—*The Greek Orators. The Phædo of Plato. Aristotle's Nicomachean Ethics*.

Students who intend to become Foreign Missionaries have the further privilege of attending the lectures in the Medical School, on the payment of the matriculation fee of five dollars.

#### ELOCUTION

A thorough course of instruction in Vocal and Elocutionary Training is arranged, which is progressive in its character and extends through the three years of study for each class. The work is so arranged that each student receives, at least once a week, criticism upon some form of expression and personal suggestions as to daily practice.

To the Junior Class, a course of lessons is given in Vocal Culture, proper action of the mind in reading and speaking, the principles of Vocal Expression, and oratoric action.

In the Middle year there will be a more advanced course in Vocal Exercises, practice in the rhythm and melody of speech, in Scripture and hymn reading, and in preaching and various forms of speaking.

During the Senior year, instruction is given both in class and in private. Training and practice of every form possible is arranged to meet the special needs of each individual in his preparation for the duties of the preacher's office.

## SACRED MUSIC

Instruction in vocal music will be given to students who desire it, under the direction of Dr. STOECKEL, the Professor of Music in the University. The course includes:—

I. Harmony; two hours a week, acoustics, intervals, formation of scales, chords, and their combinations, modulations, suspension and harmonization of melodies with special reference to sacred song.

II. Singing; two hours a week, reading music at sight and elementary instruction in vocal culture.

The course in harmony will be the same as the course No. 126, on page 64. If any of the theological students should desire to continue their musical studies after having completed the course in harmony, they may do so in connection with the musical instruction offered as courses 127, 128, on same page.

## EXERCISES IN PUBLIC SPEAKING

A rhetorical exercise for all the classes is held every week, in the MARQUAND CHAPEL, in the presence of the Faculty, and under the direction of the Professor of Homiletics. Once in two weeks an address is delivered followed by criticism and discussion. Each alternate week there is an exercise, designed for the cultivation of the power of the students in extemporaneous speaking, as well as for discussion of subjects of practical importance. Weekly debates are also held by the students in societies of their own.

## LICENSE TO PREACH

The regular time for applying for licensure is at the close of the second year's study, before which time the members of the Seminary are not allowed to preach, except by special permission of the Faculty.

## PUBLIC WORSHIP

There is daily morning worship in the MARQUAND CHAPEL. Students attend worship on the Lord's day in the University Chapel, or in any of the City Churches.

Prayer meetings of the different classes and a general prayer meeting of the Seminary are held on alternate weeks in the lecture rooms.

### BENEVOLENT WORK

It is desirable that the students should engage so far as may be consistent with the prosecution of their studies, in some form of City Mission, Sabbath School, or other benevolent work, for which constant opportunities are offered in connection with the numerous churches of the city. Provision is made for those students who wish to engage in benevolent work of this kind. A committee of the students, of which one of the Professors is chairman, has in charge the making of suitable arrangements in relation to this subject. In some cases students receive pecuniary compensation for work of this character.

By invitation of the Faculty and students, occasional lectures of an informal character, relating to the practical work of the ministry and to works of philanthropy, are given by clergymen and others, who have won distinction in these fields of service, or as specialists in the investigation of important philanthropic questions.

### MISSIONARY SOCIETIES

A general Missionary Society of the Seminary, composed of Foreign, Home and City Mission Branches, meets once in two weeks for the discussion of missionary topics. Occasional addresses are given by persons especially engaged in, or familiar with, missionary work. A Foreign Missionary Band, composed of those who contemplate service in the foreign field, holds regular meetings for the investigation and discussion of missionary subjects.

### DEGREE

The Degree of Bachelor of Divinity is conferred by the President and Fellows of the University on all members of the School who at the end of the Senior year pass the prescribed examinations, and present an approved thesis on some topic of theology.



## LIBRARIES

The *University Library*, containing 160,000 volumes in the various departments of literature and science, and many thousands of unbound pamphlets, is especially rich in its theological part, and stands in this respect among the first libraries in the country. It is open seven hours every secular day for consultation and for the drawing of books. The Divinity students in common with the other members of the University have access to it without charge.

The *Reference Library* of the School, established by the late Henry Trowbridge, Esq., of New Haven, and placed in the Bacon Memorial Hall (erected by the late Frederick Marquand, Esq.), is open for consultation during several hours of the day. It contains more than 3,000 carefully selected volumes, in every department of theological literature, and is designed to take the place, for each student, of a large and well selected private library. The latest books and periodicals are constantly added to it as they appear.

The valuable *Library of Church Music* belonging to the late Dr. Lowell Mason, was given to the Seminary by his family. This Library, one of the largest of its kind in the country, is placed in West Divinity Hall.

The *Library of Foreign Missions*, recently established, containing more than two thousand volumes, of which a catalogue has just been issued, is designed to embrace a full History of Modern Missions, as carried on by all denominations and in all countries. This Library, to which additions are constantly made, is placed in the room formerly occupied by the Trowbridge Reference Library.

The united Libraries of the College Literary Societies, containing over 30,000 volumes in general literature, are accessible to theological students.

The total number of volumes in the several libraries, which are open to students, is more than 200,000.

## PHYSICAL EXERCISE

The College Gymnasium is open to the students of this Department at a small charge. The facilities offered in this connection are described on page 76.

## DIVINITY HALLS

The East Divinity Hall, erected in 1870, contains in addition to the Lecture Rooms for the three classes and rooms for the Professors, accommodations for about sixty students. The West Divinity Hall (parallel with the other building and adjacent to it) was erected in 1874, and has, in addition to the room containing the Lowell Mason library, accommodations for ninety students. The rooms in these buildings are warmed by steam, and lighted by gas, and are provided with all necessary furniture, except bed-clothes, which may be brought by the occupants, or will be furnished at a moderate charge by the Janitor. The assignment of rooms to new students is made in the order of their application. A number of the rooms are designed for two students, but, so far as practicable, single rooms will be assigned to applicants for admission who desire to room alone.

## EXPENSES AND PECUNIARY AID

Students have to make pecuniary provision for only about eight months of study annually. In the four months of vacation, from May to September, they have the opportunity to engage in Home Missionary or other labor, with remuneration for their services.

The expenses of the annual session of 34 weeks are \$15 for each student for care of room and other incidental expenses; \$25 to \$30 for fuel and lights, or one-half of this sum in case two students occupy the same room. No charge is made for instruction or room-rent, or for the use of Libraries.

The expense for board will be from \$3 to \$4 a week, at which prices most of the students have obtained good board during the past year.

Students of the Junior, Middle, and Senior Classes, whose circumstances require it, will receive \$100 a year from the income of Scholarships and other funds belonging to the School. Additional aid to the amount of \$75 annually is furnished by the American College and Education Society to its beneficiaries. These means of assistance cover all the expenses mentioned above.

After the close of the second year in May, students not infrequently receive remuneration for preaching in places easily accessible.

In general, it may be said that the aid which is provided for every young man, of any evangelical denomination, who gives promise of usefulness in the ministry, is sufficient, in connection with his own efforts, to enable him to complete a course of theological study.

#### GRADUATE FELLOWSHIPS

A GRADUATE SCHOLARSHIP OR FELLOWSHIP was established in this department, in 1876, as a memorial of the late Mrs. Aurelia D. Hooker, of New Haven. It is assigned at graduation to that member of the class to which it is offered who, having been connected with the School through the entire course and being of approved Christian character, has, in the judgment of the Faculty, attained to such proficiency in theological studies as best to qualify him for the advantages offered by this foundation for the further prosecution of the same. The person to whom the scholarship is given receives the annual income (\$600) for two years after graduation, and is expected to pursue a course of theological study under the direction of the Faculty, either as a resident at the School, or, in case he may prefer to do so, in Europe or Palestine. The HOOKER FELLOWSHIP was offered to the class which entered the

Divinity School in September, 1890, and also to the class which entered in September, 1892.

A SIMILAR GRADUATE FELLOWSHIP yielding \$500, which has been established as a memorial of the late Mrs. Susan B. Dwight, of New Haven, and which will afford to the student who shall receive it the same privileges for one year after graduation, was offered on the same conditions to the class which entered the School in September, 1891.

# DEPARTMENT OF MEDICINE

## (YALE MEDICAL SCHOOL)

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### FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT  
MOSES C. WHITE, M.D., *Professor of Pathology*  
CHARLES A. LINDSLEY, M.D., *Professor of Theory and Practice of Medicine*  
WILLIAM H. CARMALT, M.D., *Professor of Surgery*  
JAMES CAMPBELL, M.D., *Professor of Obstetrics and Diseases of Women and Children*  
THOMAS H. RUSSELL, M.D., *Professor of Clinical Surgery and Surgical Anatomy*  
HERBERT E. SMITH, M.D., *Professor of Chemistry, and Dean*  
LOUIS S. DEFOREST, M.D., *Assistant Professor of Clinical Medicine*  
OLIVER T. OSBORNE, M.D., *Assistant Professor of Materia Medica and Therapeutics*  
HARRY B. FERRIS, M.D., *Assistant Professor of Anatomy*  
GRAHAM LUSK, PH.D., *Assistant Professor of Physiology*
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### OTHER INSTRUCTORS

- Professor WILLIAM H. BREWER, PH.D., *Lecturer on Sanitary Science and Public Health*  
HENRY P. STEARNS, M.D., *Lecturer on Insanity*  
SAMUEL B. ST. JOHN, M.D., *Lecturer on Ophthalmology*  
HENRY FLEISCHNER, M.D., *Lecturer on Dermatology and Clinical Medicine*  
FRANK H. WHEELER, M.D., *Assistant in Pathology*  
CHARLES E. PARK, M.D., *Assistant in the Surgical Clinic*  
CHARLES J. FOOTE, M.D., *Demonstrator of Bacteriology and Assistant in the Surgical Clinic*  
HENRY L. SWAIN, M.D., *Lecturer on Diseases of Throat and Ear*  
JOSEPH H. TOWNSEND, M.D., *Demonstrator of Obstetrics*  
GEORGE S. WOODWARD, M.D., *Assistant in the Medical Clinic*  
B. AUSTIN CHENEY, M.D., *Assistant in Obstetrics and Diseases of Women and Children*  
CHARLES A. TUTTLE, M.D., *Assistant in the Surgical Clinic*

ALEXANDER W. EVANS, M.D., *Assistant in Chemistry*

ROBERT O. MOODY, B.S., *Instructor in Histology*

LEONARD W. BACON, JR., M.D., *Assistant in the Medical Clinic*

WARREN A. SPALDING, *Demonstrator of Pharmacy*

In the fall of 1810 a charter was granted to the President and Fellows of Yale College and the President and Fellows of the Connecticut Medical Society, authorizing them to unite according to the terms of certain "Articles of Union," before agreed upon, for the establishment of a medical seminary, to be styled the Medical Institution of Yale College. Two years later the School was organized, and in the fall of 1813 instruction was begun. The Faculty consisted of four professors, appointed by the College Corporation from nominations by the Medical Society. Degrees were conferred by the College on the recommendation of the board of examiners, consisting of the members of the Faculty and an equal number appointed by the Medical Society. The instruction consisted of didactic and clinical lectures and dissections during the short winter course. Later, instruction was given during the spring months also, and from time to time the number of instructors was increased.

That this dual nature of the School and the method of instruction were wisely planned is shown by the position which the School took at once in the medical instruction of the time. But changes gradually took place in the relations between practitioners and students of medicine, and even greater changes in medicine itself, which demanded a different kind of instruction. This School responded early to this demand, and in 1879 an entrance examination was imposed and a graded course extending over three full years and including considerable laboratory instruction was adopted. In 1884, by an agreement with the Medical Society, the College authorities assumed the entire control of the School.

In reorganizing the School as an integral part of the University, the inherent defects in the older and still com-

mon method of instructing chiefly by didactic lectures, were recognized, and the methods now employed are similar to those in vogue in the other Departments. Didactic lectures are still employed as best in some branches, but recitations from assigned readings, with explanatory lectures, laboratory work, and personal instruction in the clinics, constitute the main portion of the curriculum. The School has well equipped laboratories for the study of anatomy, histology, chemistry, physiology, and pathology, and the student spends much of his time in them during the first two years. In the second year he begins the practical branches of medicine, to which he devotes the third year. While the attention of the student is particularly directed to those branches which can be studied to advantage only in a well equipped medical school, the value of clinical instruction is fully appreciated, and amply provided for. The details of the course of instruction are given below.

#### TERMS OF ADMISSION

Candidates for admission to the course leading to the degree of Doctor of Medicine, must be at least eighteen years old, and must present satisfactory testimonials of moral character from former instructors or physicians in good standing.

As evidence that he has had a sufficient preliminary education, each candidate must present proof that he has passed the matriculation examination of some scientific, literary, or professional college in good standing; or present testimonials from the proper officer that he has pursued the course at some high school, academy, or preparatory school, approved by the Faculty; or he must pass an examination in the following subjects:

1. **ENGLISH:** An essay of about two hundred and fifty words on some familiar subject to be announced at the time of the examination.
2. **MATHEMATICS:** The metric system of weights and measures. *Algebra*; to Quadratics. *Plane Geometry*; to the extent included in Wentworth's *Plane Geometry*, Books i-iii.
3. **PHYSICS:** Gage's *Elements of Physics*, or some equivalent work.

These examinations are conducted in writing, and are held at the Medical School at 9 A. M., on the Thursday following Commencement, and on the Wednesday preceding the opening of the first term.

Copies of the questions of previous examinations will be furnished on application to the Dean.

In conjunction with other Departments, matriculation examinations will be held also on the Thursday after Commencement, in Chicago, Cincinnati, and San Francisco. Particulars of the time and place will be announced in the local papers. A fee of five dollars is charged for admission to examinations, held out of New Haven.

Students who have studied elsewhere in recognized medical schools, may present themselves for examination three weeks before Commencement and enter the examinations of the first year, or of the first and second years, according to their time of study. The results of these examinations will determine the class to which they belong.

Applicants for advanced standing who present themselves at other times of the year will be assigned to such classes as from their representations they seem to be fitted for, but at the next annual examination they will be examined in all of the studies previously passed by their class, as well as in those for the current year.

#### TERMS AND VACATIONS

The annual sessions of the School are divided into three terms, covering thirty-four weeks, exclusive of a vacation of three weeks at Christmas and a recess in the spring, usually of one week.

The first term begins with the first Thursday of October, and continues eleven weeks. The second term begins three weeks after the close of the first, and continues twelve weeks. The third term is eleven weeks in length, ending with Commencement. (See Calendar, p. 6.)



## COURSE OF INSTRUCTION

## JUNIOR YEAR :

*Chemistry* : Illustrated Lectures and Recitations, 4 hours,\* Professor Smith. Chemical Laboratory, 9 hours, Professor Smith and Dr. Evans.

*Anatomy* : Lectures and Recitations, 3 hours, Professor Ferris. Dissections, four times a week, Professor Ferris. *Autopsies*, Professor White.

*Histology* : Recitations, 1 hour, Professor Ferris. Laboratory work, 3 hours, Professor White and Mr. Moody.

*Physiology* : Lectures and Demonstrations, 2 hours, Professor Lusk.

## MIDDLE YEAR :

*Anatomy* : Lectures and Recitations, 3 hours, Professor Ferris. Dissections, four times a week.

*Materia Medica and Therapeutics* : Lectures and Recitations, 2 hours, Professor Osborne.

*Physiology* : Lectures and Recitations, 1 hour, Professor Lusk.

*Pathology* : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White.

*Medicine* : Lectures and Recitations on General Medicine, 3 hours, Professor Lindsley.

*Surgery* : Lectures on General Surgery, 3 hours, Professor Carmalt.

*Obstetrics and Diseases of Women and Children* : Lectures and Recitations, 2 hours, Professor Campbell.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital:

## SENIOR YEAR :

*Pathology* : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White. *Bacteriology*, Dr. Foote.

*Medicine* : Lectures on General Medicine, 3 hours, Professor Lindsley. Dispensary Clinic, 3 hours, Professor DeForest. Hospital Clinics, weekly, Professor DeForest and Drs Gilbert and Fleischner. *Insanity*, 1 hour, for nine weeks, Dr. Stearns. *Sanitary Science*, Professor Brewer, and *Toxicology*, Professor Smith, 1 hour, one term. *Therapeutics*, Lectures, 1 hour, Professor Osborne.

*Surgery* : Lectures on General Surgery, 3 hours, Professor Carmalt. Dispensary Clinic, 2 hours, Professor Carmalt. Hospital Clinic, once a week, Professors Carmalt and Russell. Lectures on *Ophthalmology*, 1 hour, Dr. St. John. *Ear and Throat Clinic*, 1 hour, Dr. Swain.

\* In each week.

*Obstetrics and Diseases of Women and Children*: Lectures and Recitations, 2 hours, Professor Campbell. Demonstrations, 1 hour, and Dispensary Clinic, 2 hours, Dr. Cheney.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital.

**CHEMISTRY**—In the lectures and recitations on *General Chemistry*, the object of the instructor is to cause the students to understand the fundamental principles of the science, and to comprehend the relationship between the various classes of chemical compounds. The properties of the elements and their chief compounds are illustrated by experiments and the use of a large collection. Much attention is devoted to the study of the typical organic compounds.

*Qualitative Analysis* is taught so far as to require the students to be able to analyze a mixture of the salts of the common metals. Each student is furnished with a desk and all required apparatus and reagents. The course is systematic and is well adapted to cultivate habits of observation and the analytical method of thought. In *Quantitative Analysis* each student makes a number of typical determinations by volumetric and gravimetric methods.

The course in *Medical Chemistry* consists of recitations and a practical laboratory study of the reactions of many of the proximate principles of the animal body, and the analytical methods of value in clinical and sanitary work. The study of normal urine is thorough and is supplemented by abundant practice in the chemical and microscopical examinations of pathological specimens.

**ANATOMY**—The course in anatomy extends through two years with examinations at the end of each year.

The instruction is given by means of recitations, with frequent reviews, lectures, and laboratory work, fully illustrated by fine models, dissections and the use of several hundred lantern slides. Thoroughness of detail is aimed at, but essential points are emphasized and every opportunity is taken for illustrating the application of anatomy to practical medicine. Each student is provided with a box containing the bones of the skeleton for home study. A new laboratory has been recently equipped in the most approved manner. It is amply provided with material for dissection. The students dissect under the immediate supervision of the instructor, and are required to demonstrate satisfactorily each part dissected after its completion. A brief laboratory course in the anatomy of the cat is pursued previous to the human dissections. The written examination at the close of the first year is upon osteology, syndesmology, and myology. The instruction of the second year includes angiology, neurology, and splanchnology. Special attention is directed to the study of the brain and cerebral localizations.

*Topographical and Surgical Anatomy*—The advanced students receive instruction in the special surgical relationships of anatomy in a course of lectures with demonstrations on the living model and the cadaver.

*Normal Histology and Embryology*—The instruction in these subjects includes a careful consideration of the histological structure of the adult body compared with that of the foetus in various stages of development, together with the history of the formation and growth of the embryo as a whole. By this method the student is enabled to gain not only a thorough understanding of the structure of the various tissues and organs of the body, but also to trace their development and growth. The course of instruction consists of lectures, recitations, and laboratory work. The lectures are very fully illustrated by lantern transparencies made from photographs of typical sections and drawings. These are accompanied by recitations from a standard text-book. In the laboratory, each student is furnished with a microscope and an outfit of all reagents and apparatus required for thorough work. He receives carefully prepared sections and specimens of the tissues and organs of the body, both in the adult and embryonic condition; these are mounted for permanent preservation and from them careful drawings are made. Practical instruction is given each student in the technology of the subject.

The laboratory cabinet contains an extensive reference collection of histological specimens and serial sections of embryos; this together with the most recent instruments and publications, and an abundant supply of material, affords good facilities for advanced work.

**PHYSIOLOGY**—The course of instruction in Physiology embraces two years. During the first term of the first year the subject as presented in Huxley's *Elements of Physiology* is thoroughly reviewed, and the student is required to pass a satisfactory examination at the end of the term. This introductory course familiarizes the student with the groundwork of the study of the phenomena of life in man, and thus enables him to comprehend better the importance and application of the other studies simultaneously pursued.

During the remainder of the first year, the chemical phenomena of physiology are studied in detail. In the second year the physical phenomena are made the theme for study. The instruction is by lectures,—the excellent treatise of Landois and Stirling being used as a complement to the lectures. The course is throughout fully illustrated by experiments. Frequent examinations are intended to hold the student to his work. The instruction aimed at is eminently scientific. The student must not only know the facts, but wherever possible he must be able to state the reason for the facts, as only by this means is scientific method of thought attainable. The new laboratory which will soon

be completed will be well equipped with chemical and physical apparatus, and is designed to afford every opportunity for the student and investigator. Those fitted for advanced work are received into the laboratory, supplied with apparatus, and directed in methods of original investigation. The library of the professor in charge is freely open to those connected with the School.

**MATERIA MEDICA AND THERAPEUTICS**—The instruction in this department extends through the middle and senior years. The first year's course consists of recitations on materia medica, with personal black-board work on prescription writing, and the demonstration of all the crude drugs, salts, alkaloids and preparations of the Pharmacopœia.

The second year is devoted to recitations on the minute details of the physiological action of drugs and their therapeutic uses, with lectures on new drugs, massage, electricity, etc. During this year the students serve as clerks to the several Dispensary physicians, in rotation, and thus have a valuable opportunity to extend their practical knowledge of therapeutics and prescription writing.

**Pharmacy**—The school has a convenient and well equipped laboratory in which students are instructed by practical exercises in the preparation and compounding of drugs.

**PATHOLOGY**—The instruction in pathology consists of lectures, recitations, and laboratory work in pathological histology. The laboratory is supplied with excellent microscopes which are furnished to each student, together with all necessary apparatus and reagents for the preparation, study, and preservation of microscopical specimens of morbid tissues.

Pathological anatomy is illustrated by a large collection of specimens and drawings, with which the museum is supplied, and supplemented by fresh pathological specimens. Students are also expected to attend all the autopsies made at the Morgue of the New Haven Hospital. This large and convenient morgue was constructed with special reference to rendering autopsies available for the instruction of students.

**Medical Jurisprudence**—Instruction in this subject is given by lectures and demonstrations.

**Bacteriology**—The School has a special laboratory for the study of Bacteriology, which contains a fine equipment of modern apparatus, for carrying on investigations in all lines of research regarding bacteria. There is also maintained a cabinet of cultures, both saprophytic and pathogenic.

The instruction to students includes demonstrations of the various methods and apparatus for bacteriological research, and practical

exercises in the methods which have become of value in clinical diagnosis. Graduates and those desiring to do special work will be afforded excellent opportunities for study.

**MEDICINE**—The method so long in vogue in medical schools of teaching this important branch solely by didactic lectures, has for a few years past been superseded by a method combining lectures and recitations in the same exercise. It is the experience of this school that the latter method has been attended with much more satisfactory results. By this mode of instruction the student is not only informed of the special subject of the day, but is required to prepare himself from a text-book. During the recitations questions upon the subjects are encouraged, and the Professor has thus the best opportunity to explain such obscure points as he may find are not fully appreciated. The intent and aim of the teaching is to give the instruction a practical direction, the teacher being constantly mindful of the real needs of the student.

*Clinical Instruction* is carried on at the New Haven Hospital, and at the New Haven Dispensary which is on the School grounds.

The clinical instruction in internal medicine in connection with the Dispensary comprises three clinics weekly held for the Senior and Middle classes by the Professor of Clinical Medicine. The cases exhibited are such as may be selected from among the patients for their instructive character and cover very completely the range of diseases exhibited by walking patients. In these clinics especial attention is devoted to the demonstration of all signs and symptoms of disease, and instrumental or other means for their detection; auscultatory, palpatory, or other features which demand it, being demonstrated to the students individually in succession.

The Dispensary service in internal medicine which supplies these clinics is divided into three divisions, each under the immediate supervision of a physician, assistant to the Professor of Clinical Medicine. Each of these assistants is in attendance twice a week, and to each of them are assigned from the Senior class three clinical clerks, who are changed each month. The clinical clerks take the histories and make the preliminary examinations of patients, which are revised by the assistants who prescribe the treatment. While the clinical clerks are appointed primarily for the relief of the assistants in their examination of the patients, they find here necessary and we believe unexcelled opportunities for rendering themselves familiar with practical medical work. The urine, sputum, blood, etc., when these require investigation, are examined by the students under the direction of the instructors in chemistry and bacteriology. Cases which need to be seen at home are put in charge of Senior students with such supervision as each case requires.

At the Hospital one medical clinic is held each week by Professor DeForest, Dr. Gilbert, or Dr. Fleischner. These are general medical clinics, but particular attention is given to the demonstration of the various signs of importance in *Physical Diagnosis*. Opportunity is also here provided for the study of those severer cases which the Dispensary service does not furnish, and care is taken to have the students see the same patient in various stages of his disease, and, in fatal cases, to demonstrate the lesions at the autopsy.

*Mental Diseases* receive special consideration in a course of didactic lectures by Dr. Stearns, and by visits to hospitals for the insane.

*Dermatology* is taught in a course of clinical lectures by Dr. Fleischner.

*Sanitary Science and the Public Health* receive attention from Professor Brewer in a course of lectures, which includes the elements of these subjects, with a discussion of methods in practice, and of public sanitary administration.

*Toxicology* is taught in a course of experimental lectures by Professor Smith, and as treated includes a discussion of the general subject-matter of the science, the statistics of the use of the different poisons, and an exposition of the chemistry and the medico-legal bearings of the ptomaines.

**SURGERY**—Three didactic lectures on the principles and practice of surgery are given weekly, to the Senior and Middle classes, the course running through two years. Illustrations of minor surgical practice are shown in the service of the New Haven Dispensary, by Professor Carmalt, who has charge of the surgical division. The wards of the New Haven Hospital afford opportunities for the observation and study of the more severe injuries and important surgical diseases. Professors Carmalt and Russell, who are of the visiting staff, hold weekly clinics during their terms of service, in which the advanced students are shown the cases during their whole stay in the Hospital, studying the causes which necessitate operations, where such are necessary, seeing the operations, among which are many of the most important in surgery, and observing the results of treatment.

*Ophthalmology* is taught in a special course of lectures by Dr. S. B. St. John, of Hartford, and illustrated by a large number of cases in the surgical clinic, particular attention being given to their elucidation.

*Otology and Laryngology* are taught by Dr. Swain in the Dispensary clinics. Each student is required to make examinations with instruments, and becomes familiar with their use and with the normal and principal pathological conditions of the throat and ear.

**OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN**—Instruction is given in obstetrics by lectures and recitations, with systematic personal

instruction by means of the manikin, on the several positions of the fœtus in utero, the chief points of diagnosis, and the operations of midwifery.

The out department of obstetrics in the Dispensary is under the charge of the Demonstrator of obstetrics. With him the senior students attend the cases during and after confinement.

*Gynecology* is taught by recitations and clinics. The senior students receive personal instruction in the methods of diagnosis and treatment in the Dispensary from Dr. Cheney.

*Diseases of Children*—This important branch of medicine is taught by didactic lectures and recitations, as well as by clinical instruction at the Dispensary and Hospital.

THE NEW HAVEN HOSPITAL is situated but a short distance from the School buildings, and being the chief hospital in a large manufacturing city, which is also a considerable railroad center, its wards constantly afford ample material for the illustration of disease, and furnish frequent occasion for the performance of the various surgical operations.

The new *operating theatre* is thoroughly equipped with every requisite and convenience for surgical work. The arrangements are planned with special reference to making the operations available for purposes of instruction to students.

Three Resident Physicians are appointed annually according to the results of an examination before the medical staff. Graduates of this School frequently obtain appointments also in the hospitals of neighboring cities.

THE NEW HAVEN DISPENSARY is located on the school grounds. Extensive changes have recently been made in the building; a substantial addition has been erected and the old building remodeled. It is now so arranged as to afford the greatest facilities for the examination and treatment of the many patients who seek aid at this charity, and to furnish the best opportunities to instruct the students, who daily participate in the work of the institution.

WRITTEN EXAMINATIONS are held at the close of each year on the studies of the year. The examinations at the end of the first year are upon General and Medical Chemistry, Histology, Anatomy, and Physiology. Those at the end of the second year are upon Advanced Physiology, Advanced Anatomy, and Materia Medica. Those at the end of the third year are upon Pathology, Surgery, Medicine, and Obstetrics, with a practical examination in Clinical Medicine.

## REQUIREMENTS FOR A DEGREE

To be eligible for the degree of Doctor of Medicine, every candidate must fulfill the following conditions :

I. He must be at least twenty-one years of age, and must sustain a good reputation for moral character.

II. He must have spent three years as a student in this School, or if but one or two years in this School, he must have pursued such studies in some other recognized institution, as are considered by the Faculty to be the equivalent of the remainder of the full term of study. The last year must have been in this School.

III. He must have passed to the satisfaction of the Faculty, the prescribed examinations of the course ; and he must have presented a satisfactory thesis on some subject relating to medicine. The thesis should be presented to the Dean on the third Wednesday before Commencement.

## HONORS AND PRIZES

The degree of Doctor of Medicine *magna cum laude* will be conferred on students whose examinations and school work show distinguished merit.

The degree of Doctor of Medicine *cum laude* will be conferred on students whose examinations and school work show unusual merit.

THE CAMPBELL GOLD MEDAL is awarded to that member of the graduating class who secures the highest rank in the examinations of the course.

THE KEESE PRIZE—The income of the fund for the Keese Prize, a memorial of Hobart Keese, M.D., of the class of 1855, which amounts to about \$140 annually, is awarded by the Faculty to that member of the graduating class who presents the best thesis.

THE OBSTETRICAL PRIZE, consisting of a set of obstetrical instruments, is awarded to that member of the graduating class who passes the best examination in obstetrics.

Any of these prizes may be withheld at the option of the Faculty.



## LIBRARY

The University Library contains about 160,000 volumes and includes the Medical Library. Medical students have the same privileges of consulting and drawing books as other students of the University.

## GYMNASIUM

The privileges of the University Gymnasium can be had on payment of the fee of \$5 annually.

## FEES AND EXPENSES

## FIRST YEAR :

|   |         |
|---|---------|
| Matriculation (paid but once), . . . . .                          | \$ 5.00 |
| Tuition, . . . . .  | 140.00  |
| Practical Anatomy (including instruction and material), . . . . . | 10.00   |

## SECOND YEAR :

|   |        |
|---|--------|
| Tuition, . . . . .  | 140.00 |
| Practical Anatomy (including instruction and material), . . . . . | 5.00   |
| Practical Pharmacy, . . . . .                                     | 5.00   |

## THIRD YEAR :

|                       |       |
|-----------------------|-------|
| Tuition, . . . . .    | 80.00 |
| Graduation, . . . . . | 30.00 |

A deposit of \$5 is required in the chemical laboratory, and one of \$1 in the histological laboratory, to cover the cost of apparatus broken by the student ; at the end of the year the excess over the amount of breakage will be returned.

*These fees give entrance to all the instruction of the School, including not only the lectures and quizzes, but the practical courses in analytical and physiological chemistry, urinary analysis, histology, pathology, osteology, and clinical medicine and surgery.*

The tuition fee for the first and second years is due at the beginning of each of the three terms, in installments of \$50, \$50, and \$40, respectively ; for the third year the installments are \$30, \$30, and \$20.

Fees are paid to the Treasurer of the University, except the matriculation fee and the fee for graduation, which are paid to the Dean.

**BOND**—Students who do not pay when their bills are due are required to give a bond to the Treasurer for three hundred dollars, executed by a satisfactory bondsman ; a blank for this bond will be furnished on application to the Treasurer. Those who deposit such bonds will receive term bills, with interest added, shortly before the end of each term, to be paid, on or before the commencement of the next succeeding term, and students who deposit bonds must pay all arrearages before they can receive back their bonds from the Treasurer. No degree can be conferred, or certificates of attendance or examination furnished, until all bills due the School are paid.

Students will be assisted in finding board and lodging by the Janitor.\* Prices range from four and a half dollars a week upwards.

#### INSTRUCTION TO GRADUATE AND SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE IN MEDICINE

The instruction here offered to graduates in medicine is intended to meet the requirements of two classes of students : first, those who wish to review or supplement their knowledge of the regular studies of the medical curriculum, as taught in this School ; and second, those who wish to fit themselves in special lines of medical work, or for the duties of a medical examiner, or for medico-legal and sanitary examinations.

Courses in the following subjects are specially mentioned : Experimental Physiology ; Physiological Chemistry ; Chemical Analysis, including General Qualitative Analysis and the Quantitative Methods as applied in medicine ; Experimental Toxicology and Medico-Legal Examinations ; Sanitary Analysis, including the Chemical and Bacteriological Examinations of Food, Air, Water, etc. ; Practical Anatomy ; Normal and Pathological Histology ; General Bacteriology.

\* Mr. William Blackwood, 146 York St.

But any of the regular studies may be taken, and special courses to meet the requirements of the students may be arranged at hours convenient to the instructors.

*Special Students* are not taken in the practical branches of medicine, but the studies mentioned above and the general studies of the course are open to such persons as may desire to pursue them, if by their previous studies they are prepared to profit by the instruction.

The charges for instruction will depend on the courses taken, and can be ascertained for any particular line of study by applying to the Dean.

For further information, address Professor HERBERT E. SMITH, Dean. Office hours, from 11:30 A. M. to 12:30 P. M. on Wednesdays, at the School, 150 York St.

# DEPARTMENT OF LAW

## (YALE LAW SCHOOL)

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### FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., *PRESIDENT*  
HON. FRANCIS WAYLAND, LL.D., *Dean*  
HON. WILLIAM C. ROBINSON, LL.D., *Professor of Elementary and Criminal Law and the Law of Real Property*  
SIMEON E. BALDWIN, LL.D., *Professor of Constitutional and Mercantile Law, Corporations, Wills, and Roman Law*  
HON. WILLIAM K. TOWNSEND, D.C.L., *Edward J. Phelps Professor of Contracts, Admiralty Jurisprudence, and Torts*  
THEODORE S. WOOLSEY, LL.B., M.A., *Professor of International Law*  
GEORGE D. WATROUS, D.C.L., *Assistant Professor of Contracts and Torts*  
GEORGE E. BEERS, M.A., M.L., *Assistant Professor of Elementary Law and Contracts*
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### SPECIAL LECTURERS AND INSTRUCTORS

#### IN THE UNDERGRADUATE COURSE

- HON. EDWARD J. PHELPS, LL.D., *Instructor in Evidence, Equity, and International Law*  
HON. DWIGHT LOOMIS, *Instructor in Bailments and Evidence*  
HON. NATHANIEL SHIPMAN, LL.D., *Lecturer on Jurisdiction of and Procedure in the United States Courts*  
MARK BAILEY, M.A., *Instructor in Forensic Elocution*  
HON. WILLIAM E. SIMONDS, LL.B., M. A., *Lecturer on Patent Law*  
HON. MORRIS W. SEYMOUR, LL.B., M.A., *Lecturer on Corporations*  
M. DWIGHT COLLIER, M.A., *Lecturer on Attachments, Judgments, and Executions*  
HON. JOHN H. PERRY, M.A., LL.B., *Instructor in Evidence*  
THOMAS THACHER, LL.B., M.A., *Lecturer on Corporate Trusts*  
JAMES M. TOWNSEND, JR., LL.B., *Lecturer on Transfer of Monetary Securities*  
GEORGE M. SHARP, LL.B., M.A., *Lecturer on Insurance*  
C. LARUE MUNSON, LL.B., M.A., *Lecturer on the Beginnings of Practice*  
HOWARD H. KNAPP, B.A., LL.B., *Lecturer on Connecticut Practice*  
EDWARD G. BUCKLAND, B.A., LL.B., *Instructor in Contracts*

## IN THE GRADUATE COURSE

HON. EDWARD J. PHELPS, LL.D., *Instructor in Constitutional Limitations*

HON. DWIGHT LOOMIS, *Instructor in the Law of Taxation*

ALBERT S. WHEELER, M.A., *Instructor in Roman Law*

ARTHUR M. WHEELER, M.A., *Instructor in English Constitutional Law*

HON. DANIEL H. CHAMBERLAIN, LL.D., *W. L. Storrs Lecturer on Municipal Law*

WILLIAM G. SUMNER, LL.D., *Instructor in Political and Social Science*

M. FRANK TYLER, LL.B., *Instructor in Jurisprudence*

ARTHUR T. HADLEY, M.A., *Instructor in Railway Management and Economics of Transportation*

JOHN K. BEACH, B.A., LL.B., *Instructor in Sales*

EDWIN B. GAGER, B.A., *Instructor in Mortgages*

ROGER FOSTER, LL.B., M.A., *Lecturer on Federal Jurisprudence*

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JOHN A. ROBINSON, LL.B., M.D., *Librarian*

ALFRED W. CARTER, *Assistant Librarian*

JOHN A. HOOBER, M.L., *Instructor of Quiz Clubs*

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It is the aim of the School to give to all students in its regular undergraduate course a thorough acquaintance with the general principles and rules of American law, so as to fit them for the Bar of any State; to extend to those who do not propose to become practicing lawyers, but wish to pursue some particular branches of legal or political knowledge, such assistance as they may desire; and to offer to advanced students, who are able to devote to it the necessary time, instruction in all that belongs to law as a science in its widest sense. Such instruction is now given in an undergraduate course, a graduate course, and two special courses.

The undergraduate course is mainly devoted to the practical side of legal education, but also gives some introduction to the general ideas and sources of jurisprudence. In the graduate course, the studies are so arranged that those

of the first year have no necessary connection with those of the next, and can therefore be profitably pursued by themselves when the student has no time to devote to a more extended education. The first year is mainly occupied with further instruction in practical topics begun in the undergraduate course, such as Corporations, Railroad Law, Patents, Taxation, Equity and Code Pleading, and Practice in the United States Courts. The second year is mainly devoted to studies of a more scientific and philosophical character, such as General and Comparative Jurisprudence, Legislation and Government, Roman Law, the French Codes, and Private International Law. It is believed that the studies of the undergraduate course, and those of the first year of the graduate course, cover all the topics which it is desirable for the ordinary law student to examine before admission to the Bar ; and the fourth year (in which the degree of Doctor of Civil Law is awarded) is recommended only to those who desire to fit themselves to be something more than practicing lawyers. For the special courses see page 211.

The School occupies an entire story of the Court House of New Haven County, facing the Green, on the opposite side from the College buildings. It has, upon the same floor, two lecture-rooms, a large library hall, the office of the Dean of the Faculty, and other apartments furnishing conveniences for quiz-clubs and debating societies. A special feature of the School is the peculiar facility which it affords its students for observing actual practice in court. This is due to the fact that in the Court House two terms of the Supreme Court of Errors of Connecticut are held annually ; and the Superior Court and Court of Common Pleas (the principal Civil and Criminal Courts of the State) are also in session almost daily, during each of the School terms.

The students are allowed the freest access to the large library of the School, (which is open until half-past nine in the evening,) examining the books on the shelves for them-

selves, without the intervention of the librarian. The familiarity with the reports and authorities that is thus gained, the Faculty deem of great importance in accustoming the student to prepare his cases intelligently and thoroughly in his future practice. A debating society—the Kent Club—gives a good opportunity for practice in public speaking, and the formation of class quiz-clubs, to meet in the Law School apartments, is also provided for. Those formed in the Junior year are under the special direction of a competent instructor. The discussion of legal topics, unreservedly and familiarly by the students among themselves, is promoted, and the fact that they generally come from a wide range of States renders such comparisons of ideas of special interest and value to all. The share of the School in the general advantages of the University gives the students many opportunities of broadening their views and acquiring knowledge in regard to matters outside of their strictly professional work. They can, on application to the Dean, obtain permission to be present at one or more of the special courses of instruction in the Department of Philosophy and the Arts, or the lectures on Medical Jurisprudence, Anatomy, Insanity, etc., in the Medical School, on payment of a moderate fee.

The University Gymnasium is open to members of the Law School on payment of moderate fees.

## COURSES OF INSTRUCTION

The regular courses of instruction, including both required and elective studies, are as follows :

### UNDERGRADUATE COURSE

#### JUNIOR YEAR :

Professor WAYLAND : Lectures—English Constitutional Law.

Judge LOOMIS : Recitations—Bailments, Evidence.

Professor PHELPS : International Law.

Professor ROBINSON : Recitations—Elementary Law, Pleading, and Evidence.

Professor BALDWIN: Recitations—Mercantile Law. Lectures—Nature and History of American Law, Wills or Roman Law.

Professor TOWNSEND: Recitations—Contracts.

Professor WATROUS: Contracts and Torts.

Professor BEERS: Contracts and Elementary Law.

Mr. BUCKLAND: Contracts.

Mr. BAILEY: Forensic Elocution.

#### SENIOR YEAR :

Judge LOOMIS: Recitations—Evidence.

Professor PHELPS: Lectures—Equity.

Professor ROBINSON: Recitations—Real Property, Medical Jurisprudence. Lectures—Estates, Conveyancing, Forensic Oratory, Criminal Law.

Professor BALDWIN: Recitations—Mercantile Law, Corporations. Lectures—American Constitutional Law, Public Corporations, Wills or Roman Law, Practice.

Professor TOWNSEND: Recitations—Contracts and Torts.

Professor WATROUS: Torts.

Professor BEERS: Contracts and Equity.

Mr. SEYMOUR: Lectures—Private Corporations.

Mr. SIMONDS: Lectures—Patents.

Mr. COLLIER: Lectures—Attachments, Judgments, and Executions.

Mr. THACHER: Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND: Lectures—Transfer of Monetary Securities.

Mr. SHARP: Lectures—Insurance.

Mr. MUNSON: Lectures—The Beginnings of Practice.

#### GRADUATE COURSE.

##### FIRST YEAR :

Professor ROBINSON: Recitations—Patents.

Judge LOOMIS: Recitations—Taxation.

Professor BALDWIN: Recitations—Railroad Law, Practice in U. S. Courts.

Professor TOWNSEND: Recitations—Admiralty Law, Sales.

Mr. RUSSELL: Recitations—Municipal Corporations, Statute Law.

Mr. FOSTER: Lectures—Federal Jurisprudence.

Professor WOOLSEY: Lectures—International Law.

Mr. GAGER—Recitations—Mortgages.

Professor SUMNER: Lectures—Political History and Science.

Professor A. M. WHEELER: Lectures—English Constitutional History.

Professor HADLEY: Lectures—Railway Management.



## SECOND YEAR :

Professor ROBINSON : Recitations—Early History of Real Property.  
Lectures—Canon Law.

Professor BALDWIN : Recitations—Comparative Jurisprudence, Code Napoléon.

Professor WHEELER : Lectures—English Constitutional Law.

Professor SUMNER : Lectures—Political and Social Science.

Mr. A. S. WHEELER : Recitations—Roman Law.

Mr. TYLER : Recitations—Jurisprudence.

Professor HADLEY : Lectures—Economics of Transportation.

Professor FARNAM : Lectures—Public Finance.

The method of instruction, as will be seen by the foregoing schedule, is mainly that of recitations. It is the conviction of the Faculty of this Department, as well as the tradition of the University, that definite and permanent impressions concerning the principles and rules of any abstract science are best acquired by the study of standard text-books in private, followed by the examinations and explanation of the recitation room. Hence, although certain subjects are separately taught by lectures, either because the want of proper manuals, or the constant and rapid advance of learning, or economy of time, requires the adoption of that method, care is taken that the same topics shall be covered by recitation work in connection with the wider branches of the law to which they belong. Reported cases of special importance as illustrating the development of law into leading branches are also referred to, and many of these are separately printed and distributed for more ready consultation. The recitation-hours, however, are not devoted entirely to the questioning of the student. While this is done with sufficient thoroughness to hold him up to his work of preparation, ample opportunity is afforded for a free colloquial discussion of the subject of the lesson and for the presentation and solution of the difficulties which he may have encountered in his private study. In this manner each student is brought into personal communication with the instructor in reference to his daily work, and as far as practicable, receives the benefits which would be obtained if he were placed under the individual tutorship of his professor.

The several courses of study to which the attention of the student is directed in his undergraduate career are intended to familiarize him with all the branches of the law which ordinarily become useful to the practitioner in the earlier years of his professional life. The course, embracing American Law, English and American Constitutional Law, and Elementary Law, is pursued under the guidance of six different professors. In this course, the fundamental conceptions which underlie all systems of jurisprudence are brought to the notice of the student

and fully defined and explained ; the peculiar doctrines which characterize our American Law are pointed out ; the principles of constitutional government, and the special features it exhibits both in this country and in England, are discussed ; and the entire body of the common law in its four great divisions, is reduced to distinct propositions and illustrated by numerous collateral readings. This course alone covers the ground usually traversed by the student in an office prior to his admission to the Bar.

The course in Real Property includes recitations in a standard work of a general character, and, subsequently, in text-books upon special subjects such as the Law of Mortgages, the Law of Landlord and Tenant, etc. Collateral to this course are two others : one, a series of lectures on Estates, in which the law and practice in Guardianships of Infants and Incapables, and the Administration of Decedents' Estates, are considered ; the other, a course of practical instruction in Conveyancing, in which the students are exercised in drawing all the instruments commonly employed in the transaction of business concerning real property.

The course on Contracts is the most extended, as it is the most important, in the School. It occupies a great part of the time of two of the professors. It continues during both the Junior and Senior years, and embraces, among other important topics, those of Agency, Bailments, Bankruptcy and Insolvency, Bills and Notes, Consideration and Assent, Contract Liabilities of Infants and Married Women, Liens, Marine, Fire, and Life Insurance, Partnership, Sales, Shipping Sureties, Trademarks, and Telegraphs. Collateral to this course are five others : one on Wills, in which the law of testamentary dispositions and executorship is examined ; another on Patents, in which the nature of patentable inventions, the mode of using letters patent, and the remedies for infringement are considered ; a third on Corporations in general, treating the law governing the organization, privileges, duties, and liabilities of all incorporated bodies ; the fourth and fifth on Private and Public Corporations respectively, in which the practical arrangement of each class is illustrated and explained. The last four are begun in the undergraduate course and completed in the first year of the graduate course.

The course on Torts consists of recitations on that subject, from recent and approved text-books, with a running commentary by the instructor, explaining and applying the principles contained in the lesson.

The course on Equity embraces the whole body of Equity Jurisprudence, and is taught by recitations from the text-book, with occasional lectures on the obscurer topics. Collateral to this course is a series of lectures on Equity Pleading, discussing the principles and practice by which equitable remedies are governed and applied.

The course on Criminal Law extends through part of the Senior year, and embraces the topics of Procedure and Evidence as well as the substantive law of Crimes. Current cases of note, arising in any part of the country, are made subjects of discussion in connection with the rules of law by which they are to be decided.

The course on Pleading embraces the subjects of Common Law Pleading and Code Pleading, both taught by recitations and examples; while the details of the latter are enforced by requiring the students to draw complaints, answers, etc., in cases of their own selection, and to submit them to the instructor for criticism and correction.

The course on Evidence covers both its general rules, and those applicable to each form of action; recitations being supplemented by lectures amplifying and explaining in the light of modern cases the principles involved in the various topics. Collateral to this and the foregoing course are four others: one on Forensic Oratory, consisting of a series of lectures, in which the preparation and conduct of a suit, in all its different stages, are explained; the second, on Forensic Elocution, in which practical instruction is given in the art of public and forensic speaking; the third on Process, including the subjects of Attachments, Garnishment, and Execution; and the fourth on Practice, a series of familiar lectures on the methods of transacting general legal business.

The course on International Law occupies portions of both undergraduate years. In the Junior year, the work consists of lectures covering the general field occupied by Woolsey and Pomeroy. In the Senior year, instruction is given by lectures on particular topics, especially on questions which are, for the time being, exciting public attention, and which demand the application of the principles examined in the previous year.

The course on Roman Law is intended as an introduction to the more advanced studies of the graduate years, and, though necessarily brief, is sufficient to indicate the distinguishing features and doctrines of the civil law, and to refer to the original sources for more detailed information.

The studies of the first graduate year have been selected with a view of preparing the intended practitioner for the higher walks of professional life. The subjects are of universal interest, the law which governs them is substantially the same in all parts of the country, they involve the most extensive financial enterprises of the age, and on these accounts form the most important practical topics at present embraced within our law. Particular attention to them has, therefore, been deemed an essential requisite to a finished legal education, and the devotion to them of an additional year, on the part of students and instructors, has been thought a wise, if not a necessary measure. The various courses are critically taught both by text-book and by lecture, and each student

receives all the assistance he may desire in his personal examination of cases and authorities. Special attention is paid to the methods of practice and pleading in the United States Courts, both in Common Law, Equity, and Admiralty cases, and instruction is therefore given on these subjects by three of the Faculty. The students are required to draft pleadings, and in matters of special difficulty, such as the conduct of proceedings *in rem* in Admiralty, these pleadings are carried on through all the usual steps, and the issues made up are argued before the Professor. The value of this year of special work to the earnest and intelligent graduate cannot be overestimated.

The courses of instruction in the second graduate year are designed to afford to the advanced student an opportunity to round out his legal acquirements with a knowledge of the more profound and philosophical principles of human law. The primary conceptions to which he was introduced at the commencement of his studies are again taken up and developed in a scientific method, and examined in the light of various systems of practical Jurisprudence now or heretofore prevailing. In view of the limited time which can ordinarily be devoted by young men to these pursuits, the courses have been so arranged as to present these fundamental ideas as clearly and in as many applications as is possible, leaving it to future private study to enlarge the outline and complete the details of the work.

The course on General Jurisprudence consists of lectures and recitations from such works as Austin on Jurisprudence, Holmes on the Common Law, etc., and the students are required to write theses on the various topics. Charitable Trusts are examined with reference both to their creation and to their proper administration. The course on Roman Law comprises the careful study of the Institutes of Justinian, in connection with institutional works of modern authors, and the perusal of selected titles from the Digest, accompanied by oral explanation. Particular attention is devoted to this course of study, and every effort is put forth to make the students familiar with the doctrines of the civil law, as well as with the technical language in which these have been expressed. The course on Comparative Jurisprudence includes among its chief branches a careful study of the French Codes, compared with other systems of Jurisprudence, particularly the Roman, English, and American, and recitations upon private international and inter-state law, with the investigation of leading cases on the subjects, decided in the French and American Courts. The course on Canon Law consists of a series of lectures on the history, development, and fundamental theories of the Canon Law, with select readings from the *Corpus Juris Canonici*, and from French and English treatises upon the subject. The course on Political and Social Science is one of the principal courses in the Philosophical Department of the University, and is attended by the

graduate students of the Law School in common with the members of that Department. The course on the Economics of Transportation is a continuation of the series of Lectures on Railway Management given in the first graduate year, extending the view of the student from the single subject of railways to all the instrumentalities of commerce.

In addition to the regular course of instruction, two Special Courses are provided; one for those who desire some acquaintance with law as a preparation for business life; the other for persons not intending any active business or professional career, but desiring to acquire an enlarged acquaintance with our political and legal systems and the rules by which they are governed. The first of these special courses covers a single year; the second comprises two years. The studies of the first course may be arranged as follows, but the selection can be varied (if desired) on consultation with the Dean of the Faculty:

Professor ROBINSON: Recitations—Elementary Law. Lectures—Estates.

Judge LOOMIS: Recitations—Bailments.

Professor BALDWIN: Recitations—Agency, Partnership, Corporations, Bills and Notes, Bankruptcy and Insolvency. Lectures—American Law, American Constitutional Law.

Professor WATROUS: Recitations—Torts.

Professor TOWNSEND: Recitations—Marriage, and Husband and Wife, Sales, Shipping, Insurance, Securities, Bailments, Telegraphs, Trademarks, Liens.

Professor PHELPS: Lectures—International Law.

Professor HADLEY: Lectures—Industrial Legislation.

Mr. BAILEY: Lectures—Elocution.

Mr. COLLIER: Lectures—Attachments, Judgments, and Executions.

Mr. THACHER: Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND: Lectures—Transfer of Monetary Securities.

## SECOND SPECIAL COURSE—TWO YEARS

### FIRST YEAR

Professor ROBINSON: Recitations—Elementary Law. Lectures—Estates.

Judge LOOMIS: Recitations—Bailments.

Professor BALDWIN: Recitations—Bankruptcy and Insolvency. Lectures—American Law, American Constitutional Law, and Wills or Roman Law.

Professor TOWNSEND: Recitations—Sales, Insurance.

Professor PHELPS: Lectures—International Law.

Professor SUMNER: Lectures—Political and Social Science.

Professor FARNAM: Lectures—Public Finance.

Professor HADLEY: Lectures—Industrial Legislation.

Mr. BAILEY: Elocution.

Mr. SEYMOUR: Lectures—Private Corporations.

Mr. WHITE: Lectures—Local Government in the United States.

Mr. SHARP: Lectures—Insurance.

#### SECOND YEAR

Judge LOOMIS: Lectures—Taxation.

Professor BALDWIN: Recitations—Private International Law.

Mr. RUSSELL: Recitations—Municipal Corporations, General or Comparative Jurisprudence.

Professor WOOLSEY: Lectures—International Law.

Professor SUMNER: Lectures—Political and Social Science.

Mr. A. S. WHEELER: Recitations—Roman Law.

Mr. THACHER: Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND: Lectures—Transfer of Monetary Securities.

In the latter course the students may, at their option, defer some of the studies of the first year until the second, and when desired, other branches taught in the Law School may be pursued, instead of certain of those here mentioned, at the discretion of the Faculty. Some or all of the studies of this course may be taken by those who, having received a bachelor's degree implying a course of undergraduate study equivalent to that pursued in the Academical Department, are completing their education with a view of applying for the degree of Doctor of Philosophy. Those who take the full course may apply for the degree of Bachelor of Civil Law (B.C.L.).

Besides these various exercises, the undergraduate students are required, from time to time, to draft contracts, wills, and other similar instruments, the work of each being reviewed and commented upon, either in public or in private, by the instructor. Public Moot Courts, besides those of the class quiz-clubs, are regularly held, at which one of the professors presides as judge, and the students acting as

counsel, in the argument of cases, are required to draw the necessary pleadings, according to the common law or equity forms, as the case may be. Occasionally, also, cases are tried by the students before a jury of their own number, in a court regularly organized, with a full complement of judicial, clerical, and executive officers, where the proceedings are conducted in the same manner as in ordinary courts of law.

#### TERMS AND VACATIONS

There are three terms in each year : the Fall Term, beginning thirteen weeks from the day after Commencement, and continuing to the Thursday before Christmas ; the Winter Term, beginning in January, after a vacation of three weeks, and lasting eleven weeks ; and the Spring Term, beginning after a vacation of two weeks, and continuing until Commencement.

#### REQUIREMENTS FOR ADMISSION

##### UNDERGRADUATE COURSE

Applicants for admission to the Junior Class must be at least eighteen years of age, and must produce certificates of good moral character. Students who have not received a liberal education at some collegiate institution will not be admitted as candidates for the degree of LL.B., until they have passed satisfactory examinations on the outlines of the History of England (Green's History of the English People is recommended) and of the United States, and on the text of the Constitution of the United States. Those, however, will be excused from this examination who present a certificate that they have passed a " Regents' Examination for Law Students," conducted under the authority of the Board of Regents of the University of the State of New York.

To entitle a person to admission to advanced standing as a member of the Senior Class, he must be at least nineteen years of age ; must, if a college graduate, have studied law

under a competent instructor, or at the Law School of some College or University for at least one year ; must, if not a College graduate, have studied law under a competent instructor for at least two years, or at a Law School for at least one year ; and must pass such examinations as are required for those entering the Senior Class in the regular course, at which it will be sufficient if he is prepared to be questioned on Parsons on Contracts (excepting only from vol. ii, pages 257 to 488, and from vol. iii, pages 350 to 423 and 525 to 557) ; Blackstone's Commentaries (except Book 4), Robinson's Elementary Law, Gould on Pleading, Townsend's Notes on Code Pleading, Greenleaf on Evidence, vol. i, Cooley on Torts, and the elementary principles of testamentary law, as given in such works as Hawkins on the Construction of Wills. Those not College graduates must also pass the preliminary English entrance examination, or produce a "Law Student's Certificate," from the Regents of the University of the State of New York. Attorneys at Law, however, of any State are entitled to admission to the Senior Class, without examination, on the exhibition of their certificates of admission to the bar ; and special students, not candidates for a degree, will be admitted to any of the exercises of the School without examination.

#### GRADUATE COURSE

The first year of the graduate course is open, without examination, to graduates from any Law School, having the degree of LL.B.

The last year is open to those who have received the degree of Master of Laws (M.L.), at this school or some other having an undergraduate course of a similar character. A preliminary examination upon the outlines of Roman Law and Roman History must also be passed, by all who have not taken their Bachelor's degree at some Law School where Roman Law is a prescribed study. Any attorney at law on presentation of a certificate of a



judge of the highest court in his state that he has been in active practice during the previous five years, and has a creditable standing at the bar, may be admitted as a candidate for the degree of M.L. The degree of Doctor of Civil Law (D.C.L.) may be applied for at the end of this year, by those who have been graduated at some collegiate institution, as Bachelor of Arts, Philology, or Philosophy; or who are graduates of this Law School, and have attained a prescribed standard of scholarship on their examinations for the degrees of LL.B. and M.L. A good knowledge of either the French or German language, as well as of Latin, is also required. The Faculty will present no one for the degree of D.C.L. who has not attained a high standard of proficiency in the studies pursued.

#### EXAMINATIONS

There will be an examination of candidates for admission to the Junior Class immediately after the opening of the Fall Term. Candidates for admission to the Senior Class are examined at the end of the Spring Term, or beginning of the Fall Term. Seniors are examined for a degree, only at the close of the Spring Term. In the undergraduate course there are certain studies upon which all students are examined at the close of the year, and others upon which only those who desire, are examined. The award of "honors" is confined to those who pass both examinations. Examinations for degrees in each course are held at the close of the Spring Term. Every candidate for a degree, both in the undergraduate and graduate courses, must also submit a written thesis on a given legal topic, which must be approved by the Faculty.

#### LIBRARY, PRIZES, ETC.

The special Library of the Department, which has a permanent endowment for its support (the English Fund, established by the Hon. James E. English, M.A., in 1873), contains about nine thousand volumes, and is open daily

and in the evening during term time. It embraces all the reports of Great Britain and America, with an extensive collection of text-books, and the leading legal periodicals. The students can also draw books from the general University libraries, containing over 200,000 volumes.

The following prizes are open to competition :

The **TOWNSEND PRIZE** (established by the Hon. James M. Townsend, in 1874), of one hundred dollars, to that member of the Senior Class who shall write and pronounce the best oration at the public anniversary exercises on graduation.

The **JEWELL PRIZE** (established by the Hon. Marshall Jewell, M.A., in 1871), of fifty dollars, to that member of the Senior Class who receives the highest marks at the final examination of his class, at their graduation.

The **BETTS PRIZE** (established by Frederic H. Betts, M.A., in 1875), of fifty dollars, to that member of the Junior Class who receives the highest marks at his annual examination.

The **O. S. SEYMOUR PRIZE** (established by the family of the late Hon. Origen S. Seymour, LL.D., in 1885), of sixty dollars, to that member of the graduating class who, in the opinion of the Faculty, has made the greatest improvement in scholarship during both years of his course.

The **MUNSON PRIZE** (established by C. LaRue Munson, LL.B., in 1890), of fifty dollars, for the best graduating thesis.

One Prize of fifty dollars, one Prize of thirty dollars, and one Prize of twenty dollars, to those three members of the Yale Kent Club, who, at a public competitive debate, are pronounced first, second, and third in excellence as debaters.

## DEGREES

In the undergraduate course the degree of Bachelor of Laws is conferred by the Corporation upon the recommendation of the Faculty of the Department, based on a satisfactory "pass" examination and the submission of a satisfactory thesis, on the following persons:

1st. Attorneys at Law, who have been members of the Department for one year after their admission to the Bar.

2d. Any students who have been members of the Department for not less than two years, and who passed satisfactorily the Junior "pass" examination at the end of their first year.

3d. Students who have been admitted to advanced standing as members of the Senior Class, and have remained in that Class for not less than one year.

The degree of Bachelor of Civil Law (B.C.L.) will be conferred, after a satisfactory examination and submission of a satisfactory thesis, on those who complete the second special course of two years. In the graduate course the degree of Master of Laws (M.L.) and Doctor of Civil Law (D.C.L.) are conferred under the conditions before specified.

Degrees are awarded, in cases of students of unusual merit, *cum laude*, *magna cum laude*, or *summa cum laude*.

## EXPENSES

The fees for tuition and use of the Law library in the undergraduate and first special courses are forty-five dollars for the Fall Term, thirty-five dollars for the Winter Term, and thirty-five dollars for the Spring Term, or one hundred dollars for the entire year; and in the graduate and second special courses, for the first year, fifty dollars for the Fall Term, forty dollars for the Winter Term, and forty dollars for the Spring Term, or one hundred and twenty-five dollars for the whole year; and for the second year, eighty dollars for the Fall Term, seventy dollars for the Winter Term, and seventy dollars for the Spring Term, or two hundred dollars for the whole year; to be paid to

the Treasurer of the University in advance, or secured by a bond with surety to his satisfaction. Where payment is not made in advance, interest will be added. All members of the Law Department are required to pay, in advance, an annual assessment of five dollars for the use of the University Library. The fee for graduation is five dollars. The tuition charges for special students vary in proportion to the amount of instruction and supervision required. Board and lodgings can be obtained at prices ranging from five dollars a week upwards.

For further particulars, inquiries may be addressed to Professor Francis Wayland, Dean of the Faculty.

## LIBRARIES

ADDISON VANNAME, M.A., *Librarian*

FRANKLIN B. DEXTER, M.A., *Assistant Librarian*

J. SUMNER SMITH, B.A., *Librarian of the Linonian and Brothers Library*

EDWARD J. F. WERDER, LL.B., *Assistant*

ANNIE E. HUTCHINS, *Assistant*

HENRY R. GRUENER, *Assistant*

The Standing Committee in charge of the Library, appointed by the Corporation, consists of President DWIGHT, Professors SALISBURY, DAY, FISHER, NEWTON, and LOUNSBURY, and the Librarian.

The whole number of volumes in the several libraries of the University is over 200,000.

The UNIVERSITY LIBRARY contains about 160,000 volumes and many thousands of unbound pamphlets. For some years past the average annual increase has been about 5,000 volumes. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number, the foreign serials alone being not less than five hundred. While designed especially for the use of the officers, resident graduates, and students of the several Departments of the University, other persons may have the privilege of consulting and, by permission of the Library Committee, of drawing books. The Library is open daily, except Sundays, in term-time, from 9:30 A. M. to 5 P. M. In the Winter vacation and through July it is open during the morning hours, and in the rest of Summer vacation on Monday, Wednesday, and Saturday mornings.

The new library building, erected by the munificence of the late Hon. Simeon B. Chittenden, of Brooklyn, N. Y., began to be occupied in 1890.

The LINONIAN AND BROTHERS LIBRARY, occupying the south wing of the old Library building, contains about 32,000 volumes, to which additions of not far from one thousand volumes, chiefly of the best current literature, are annually made. It is designed primarily for the use of the students, and is open in term-time, daily, except Sundays, from 9:30 A. M. to 12 M., and from 1:30 to 4 P. M. In vacations it is open on Wednesdays and Saturdays from 10 A. M. to 12 M.

In addition to the periodicals received at the University Library there will be found in the Reading Room (in the north wing of the Library) forty-nine daily newspapers, American and foreign, fifty-nine weeklies, and seventy periodicals. This is open daily in term-time from 9 A. M. to 8 P. M. (on Sundays from 1 to 8 P. M.)

In Dwight Hall, which is open daily from 7:45 A. M. to 9 P. M., will also be found forty-five newspapers and periodicals, mostly religious, and a library of nearly 1,000 volumes selected mainly with reference to the study of the Bible.

The LAW LIBRARY, containing about 9,000 volumes, among which are included complete sets of the English, American, Irish, and Canadian Reports, occupies rooms adjoining those of the Law School in the County Court House. It is open daily in term-time from 8:30 A. M. to 12:45 P. M., and from 2 to 5:30 P. M. (except Saturday afternoon); in vacation from 9 A. M.

The SHEFFIELD SCIENTIFIC SCHOOL LIBRARY, in Sheffield Hall, is a valuable collection of 6,000 volumes, chiefly mathematical.

The TROWBRIDGE REFERENCE LIBRARY of the Divinity School, in Bacon Memorial Hall, contains over 3,000 volumes of standard and recent theological literature. It is open in term-time through the afternoons.

The LOWELL MASON LIBRARY OF CHURCH MUSIC, in West Divinity Hall, is accessible to those interested in the study of this subject. It embraces about 8,000 titles in 4,000 volumes.

The Art School has a Library of about 500 volumes.

The Library of the Medical School is incorporated in the University Library.

The Library of the American Oriental Society, consisting of about four thousand books and manuscripts, is deposited in the University Library building.

# PEABODY MUSEUM OF NATURAL HISTORY

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## TRUSTEES

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HON. GEORGE PEABODY WETMORE, M.A.

PROFESSOR EDWARD S. DANA, PH.D.

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## CURATORS

OTHNIEL C. MARSH, PH.D., LL.D., *Curator of the Geological Collection*

ADDISON E. VERRILL, M.A., *Curator of the Zoological Collection*

EDWARD S. DANA, PH.D., *Curator of the Mineralogical Collection*

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In 1866, George Peabody, of London, but of Massachusetts birth, entrusted to a board of Trustees, selected by him, the sum of \$150,000, "to found and maintain a Museum of Natural History, especially in the departments of Zoology, Geology, and Mineralogy, in connection with Yale College." Of this sum \$100,000 was devoted by Mr. Peabody to the erection, "on land to be given for that purpose by the President and Fellows of Yale College, of a fire-proof building," "planned with special reference to its subsequent enlargement," to be, "when completed, the property of Yale College." Of the remainder of the gift, \$20,000 was set apart to "accumulate as a building fund," and \$30,000 to meet by its income from investment the expenses attending "the care of the museum, the increase of its collections, and the general interests of the departments of science before named."

Ten years later, in 1876, the first wing of the Museum—the part now standing—was completed and furnished with



cases at a cost of \$175,000, the whole outlay being met by the accumulated building fund. The central part of the projected structure and the South wing—which will extend it to Library street—remain to be built whenever the means available for the purpose shall be adequate. The central part is much needed, as only a small part of the specimens secured can now be placed on exhibition in the first wing.

The first floor of the building is devoted to the department of Mineralogy and to the purposes of a large lecture room. The minerals occupy cases in the west room, the door of which fronts the entrance to the Museum. The minerals of the Gibbs collection, deposited by Col. George Gibbs with the College in 1809-10, and purchased in 1825 at a cost of \$20,000, and the extensive accumulations since made, are here preserved and for the most part on exhibition, making it one of the largest public collections in the country. The private cabinet of Professor Brush, arranged in drawers in his private room on the same story, although not open to general exhibition, adds greatly to the means of study and investigation in this department. Besides minerals, the exhibition room contains one of the largest collections of meteorites in the country; among the specimens, there are the famous mass of meteoric iron from Texas, weighing 1635 pounds; some hundreds of meteorites, large and small, all of which came from a single fall in Iowa, in May, 1879; the interesting Weston meteorite, which fell at Weston, Connecticut, in 1807, and was soon after described at length by Professors Silliman and Kingsley; besides many others of special interest. An important recent (1891) addition is a collection of meteorites numbering nearly one thousand which came from the great meteoric fall of May 2, 1890, in Winnebago County, Iowa. A case in the center of the room contains the large and beautiful collection of Chinese artistic work in stone, chiefly in jade and agate, with other like objects, bequeathed by Dr. S. Wells Williams, who was for forty-three years in China as Christian philanthropist, editor, author, and at-

taché to the American legation, and for some years before his decease was the Professor of Chinese in the University. The large room on the same story adjoining the Mineral room, on the north side of the hall, is arranged for mineralogical and blowpipe instruction, with desks and a students' cabinet of minerals, and is under the charge of Assistant Professor Penfield.

The second floor is given up to Geology and Palaeontology. The southern room contains vertebrate fossils. The latter are mostly collections made by Professor Marsh, in the Rocky-Mountain region and other parts of the West. In this room the first horizontal case to the left of the entrance contains specimens of *toothed* birds, mainly *Hesperornis* and *Ichthyornis*, discovered by Professor Marsh in the Cretaceous rocks of Kansas. Near by, in the first vertical case against the wall, are the bones of a large Mastodon from the Post-Pliocene of southern New York. In the second wall-case on the east side are the huge bones of the Miocene *Brontotheridae* from Dakota and Nebraska. In the two wall-cases at the southeastern corner are remains of the *Dinocerata*, large horned mammals from the Eocene of Wyoming. In the horizontal case adjoining may be seen two skeletons of gigantic Moas (*Dinornis*), extinct birds from New Zealand. In the center of the room are part of the bones of an enormous Dinosaur (*Brontosaurus*), sixty feet in length, from the Jurassic of Wyoming, and a large slab, standing vertically, showing the skeleton of a Mosasaur from the Chalk of Kansas. Behind this is a case containing the nearly complete skull of *Triceratops*, a gigantic Dinosaur from the Cretaceous of Wyoming. The horizontal case to the right of the entrance and the wall-case adjoining it on the west contain the remains of another Jurassic Dinosaur (*Stegosaurus*), about thirty feet long, which, as the specimens show, had a series of very large vertical plates along the back, and two or more pairs of immense spines on the tail. In the lower part of the next vertical case lies part of a thigh bone of *Atlantosaurus*, the largest of Dinosaurs

and of land animals yet known. A horizontal case on the south side of the room, contains the feet of various animals, and among them the bones of the feet of three-toed and four-toed horses from the Tertiary of Nebraska and Wyoming. In the wall-case south of this are remains of the extinct Irish Elk, and over the case is the skull with the large antlers complete. At the southwestern corner of the room, the wall-cases contain the bones of *Morosaurus*, another Jurassic Dinosaur. In the adjoining horizontal case is a series of Eocene fishes from Utah.

The western exhibition room is occupied mainly by a collection of invertebrate fossils, arranged zoologically. The first vertical case on the south is devoted chiefly to fossil sponges, among which the series of *Brachiospongidae* is the most notable. Then follow two cases of corals, with many fine examples from Kentucky, Ohio, and New York. The nine succeeding cases contain collections of crinoids, trilobites, crustacea, bryozoa, and fossil shells. The two wall-cases on the eastern side of the room exhibit slabs of crinoids from Indiana, and a number of large American ammonites. One table-case contains a series illustrative of Dana's Manual of Geology, and a second is largely devoted to recent brachiopods.

The collections of invertebrate fossils are especially in charge of Assistant Professor Beecher.

Of the large collection of foot-prints belonging to the University, only a few fine slabs are on exhibition, part of them in each of the two exhibition-rooms of the second story. One of the most interesting is a slab about twelve feet long, covered throughout with raindrop impressions, and, besides these, two series of foot-prints of biped reptiles, one line of them extending the whole length of the slab.

The third story is occupied with the zoological collections so far as there is room for their exhibition. The general zoological collection occupies the western room; and nearly the whole has been accumulated since Professor

Verrill took charge of the department. The specimens are well arranged for exhibition and all labelled. Facing the south door stands a vertical case devoted to the Sponges, among which are many species of the siliceous or glass sponges (*Euplectella*, etc.). Beyond the sponges, twelve cases are filled with the collection of corals, which is one of the most extensive in the country. These are followed by the Echinoderms, etc. Several cases are devoted to a collection of the marine invertebrates of New England, which is nearly complete. Other cases contain special collections of the shells and corals of the Pacific Coast of America; of the corals of Bermuda; of the shells of Florida, etc. The collections are rich in species from the deep-sea dredgings in the Atlantic, but only a small part are on exhibition. Overhead are models, of natural size, of two of the huge Cephalopods of the world: one an Octopus from California, 28 feet in diameter (between the tips of opposite arms), and the other, nearer the door, a species of the Newfoundland seas, related to the Squids, having enormous eyes, and a length from the posterior extremity to the tips of the longer arms, of 42 feet. The models were made for the zoological department by Mr. J. H. Emerton.

The southern exhibition-room of the zoological story contains a collection of skeletons in cases on its east and south sides, commencing near the door. These are deposited by Professor Marsh. The skeletons of mammals, beginning with man and the apes, occupy all the east side; and then comes the birds, reptiles, and fishes. The rest of the cases are occupied with collections of vertebrates, both mounted and alcoholic, and include a nearly complete series of the species inhabiting New England.

The second and third stories have also large laboratories and workrooms, devoted to the department represented in the exhibition-rooms of the story. Those of the second or geological story are in charge of Professor Marsh; and those of the third or zoological story, besides serving for

workrooms, are for the laboratory exercises and instruction of students in General Zoology under Professor Verrill. These rooms contain also large collections of specimens arranged in drawers and trays, which are open to special students in the department.

In the fourth story there is a large Archaeological collection. As the funds of the Museum are restricted to the departments of Mineralogy, Geology, and Zoology, the cases of the old Yale Museum were fitted up for this collection.

The basement is devoted to workrooms and storerooms, and contains a vast amount of specimens, in the departments especially of Palaeontology and Zoology. This part of the building is closed to visitors.

The exhibition-rooms of the Museum are open between 9 A. M. and 6 P. M., except in the winter, when the hours are from 9 A. M. to 5 P. M. The janitor of the building is Mr. J. Rice, 92 High street.

# THE OBSERVATORY

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## BOARD OF MANAGERS

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THE OBSERVATORY has been built from the avails of the gift of the late Hon. Oliver F. Winchester, of New Haven, on land given by the late Mrs. Cornelia L. Hillhouse and her daughters. The principal astronomical instruments now in use are a six-inch Heliumeter constructed by Messrs. Repsold, of Hamburg, and an eight-inch Equatorial by Messrs. Grubb, of Dublin, given by the late Mr. Edward M. Reed, of New Haven.

Besides its ordinary astronomical work, the Observatory maintains two public services. Continuous time-signals are transmitted from the distributing clock at the Observatory to the railroads and other parties. The Observatory offers facilities also to persons interested in accurate Thermometry for the comparison of thermometers with standard instruments.

For the proper performance of these services the following equipment is in use :

1. Standard clocks, a transit instrument, chronographs, and the accessories for refined accuracy in the determination and transmission of time.

2. Apparatus for research and comparison in Thermometry, including a collection of the best thermometers obtainable of the foreign makers and observatories which devote special attention to thermometric standards.

Descriptive circulars of the Thermometric service may be obtained by addressing the Observatory.

By the will of Professor Elias Loomis, who died in August, 1889, the Observatory receives one-third of the income, and will ultimately receive the entire income, of a fund established by him and called *the Loomis Fund*. The income received is to be applied to all, or one, or more, of the following objects only, namely, the payment of the salaries of observers whose time is exclusively devoted to the making of observations for the promotion of the science of Astronomy, or to the reduction of astronomical observations and their discussion in papers prepared for publication, or to defraying the expenses of publishing these observations and of publishing investigations based upon astronomical observations. The principal of the Loomis Fund is about three hundred thousand dollars.

## UNIVERSITY PRIZES

The JOHN A. PORTER PRIZE, of the value of two hundred and fifty dollars, established by the Kingsley Trust Association in 1872, is offered for the best English Essay on a prescribed subject. Competing essays must be handed in after the close of the Spring Recess, and the award will be announced on Commencement Day. Any person who has been pursuing a regular course for a degree in any Department during the whole of the current College year, may compete for this prize. If none of the competing essays is of sufficient merit, the prize will not be awarded.

The subjects for Essays in 1893 are as follows:—

1. The American Preparatory School.
2. The Position of the Federal Government of the United States in regard to Crimes Committed against the Subjects of a Foreign Nation within the States.
3. The Extension of the Right of Personal Privacy—its Legal and its Social Aspects.
4. The History of the Theory of the Social Compact.
5. Peasant Wars at the Close of the Middle Ages and Modern Labor Troubles Compared.
6. Dante's Significance as a Thinker in the Modern World.
7. Puritanism and the Stage (Elizabeth, James, and Charles).
8. English Elegiac Verse: A Comparative Criticism of Great English Elegies from the "Bok of the Duchesse" to "Ave atque vale."
9. The Poetry of Catholicism.
10. The Socialistic Reaction against Religion.
11. The Relations of the Hierarchical Organizations of the Church since Constantine to the Growth of Civil Liberty.
12. Hypnotism.

The essays, which should be signed by an assumed name and accompanied by a sealed envelope containing the writer's full name, will be due on May 1, at No. 105 Grove street, New Haven.

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The COBDEN CLUB SILVER MEDAL is awarded annually to that undergraduate of either the Academical or the Scientific Department who shows the greatest proficiency in the elements of Political Economy.



# LISTS OF STUDENTS

## DEPARTMENT OF PHILOSOPHY AND THE ARTS

### COURSES OF GRADUATE INSTRUCTION

|   |   |
|---|---|
| Ellen Cordelia Abbott, B.A. }<br>Vassar College 1892 }                                  | <i>West Haven, Conn.</i> West Haven         |
| Michiye Adachi, }<br>Doshisha College, Japan }  | <i>Kochi, Japan</i> 438 Elm st.             |
| Arthur Bronson Adams, PH.B. }<br>Yale University 1885 }                                 | <i>New Haven, Conn.</i> 26 Academy st.      |
| Arthur Chambers Alexander, PH.B. }<br>Yale University 1889 }                            | <i>Honolulu, H. I.</i> 145 College st.      |
| Edward Scribner Ames, B.A. }<br>Drake University 1889, B.D. }<br>Yale University 1892 } | <i>Springfield, Ill.</i> 16 University pl.  |
| Wilbur Langdon Anderson, B.A. }<br>Wesleyan University 1892 }                           | <i>Black Hall, Conn.</i> 317 George st.     |
| Yokichi Aoki, }<br>Doshisha Theol. School, Japan, 1890 }                                | <i>Okayama, Japan</i> 438 Elm st.           |
| Frank Armfield, B.A. }<br>Trinity Coll., N. C., 1892 }                                  | <i>Monroe, N. C.</i> 297 George st.         |
| George Sherwin Clarke Badger, B.A. }<br>Yale University 1892 }                          | <i>Boston, Mass.</i> 60 Grove st.           |
| Charlotte Cynthia Barnum, B.A. }<br>Vassar College 1881 }                               | <i>New Haven, Conn.</i><br>144 Humphrey st. |
| Clara Louisa Barnum, B.A. }<br>Vassar College 1888 }                                    | <i>New Haven, Conn.</i><br>144 Humphrey st. |
| Charles Joseph Bartlett, B.A. }<br>Yale University 1892 }                               | <i>New Haven, Conn.</i> 83 Elm st.          |
| William Tenney Bartley, B.A. }<br>Yale University 1891 }                                | <i>Stratford, Conn.</i> 37 Lynwood st.      |
| Frederic Elijah Beach, PH.B. }<br>Yale University 1883 }                                | <i>New Haven, Conn.</i> 44 Lyon st.         |
| John Beadle, B.A. }<br>Yale University 1886 }   | <i>New Haven, Conn.</i> 554 Chapel st.      |
| Lars Herman Beck, B.A. }<br>Augustana College 1885, }<br>PH.D. Yale Univ. 1892 }        | <i>Naugatuck, Conn.</i> Naugatuck           |

|                                  |                           |                  |
|----------------------------------|---------------------------|------------------|
| Charles Bemis Bliss, B.A. }      | <i>Lebanon, Conn.</i>     | 22 Whalley av.   |
| Yale University 1890 }           |                           |                  |
| Carl August Blomgren, B.A. }     | <i>Bridgeport, Conn.</i>  | 149 St. John st. |
| Augustana College 1885 }         |                           |                  |
| Arthur Eli Booth, PH.B. }        | <i>Peace Dale, R. I.</i>  | 23 Lynwood st.   |
| Yale University 1891 }           |                           |                  |
| Joseph Bowden, Jr., B.A. }       | <i>New Haven, Conn.</i>   | 147 Dwight st.   |
| Yale University 1891 }           |                           |                  |
| Arthur Stone Brackett, B.A. }    | <i>Hartford, Conn.</i>    | 83 Elm st.       |
| Yale University 1892 }           |                           |                  |
| Francis Theodore Brown, B.A. }   | <i>Glens Falls, N. Y.</i> | 116 College st.  |
| Yale University 1891 }           |                           |                  |
| Edward Franklin Buchner, B.A. }  | <i>Gibson City, Ill.</i>  | 54 Park st.      |
| Western College, Iowa, 1889 }    |                           |                  |
| Otis Gridley Bunnell, PH.B. }    | <i>Burlington, Conn.</i>  | 58 Lyon st.      |
| Yale University 1892 }           |                           |                  |
| Sterling Haight Bunnell, PH.B. } | <i>Stratford, Conn.</i>   | 297 York st.     |
| Yale University 1891 }           |                           |                  |
| Curtis Clark Bushnell, B.A. }    | <i>New Haven, Conn.</i>   | 19 Perkins st.   |
| Yale University 1891 }           |                           |                  |
| Jean du Buy, J.U.D. }            | <i>Berlin, Germany</i>    | 397 Temple st.   |
| Heidelberg Univ. 1889 }          |                           |                  |
| George Flavius Campbell, PH.B. } | <i>New Haven, Conn.</i>   | 49 Dixwell av.   |
| Yale University 1892 }           |                           |                  |
| Alfred C. Carlson, B.A. }        | <i>Ansonia, Conn.</i>     | 149 St. John st. |
| Gustavus Adolphus College 1890 } |                           |                  |
| Wesley Roswell Coe, PH.B. }      | <i>Middlefield, Conn.</i> | 131 Howe st.     |
| Yale University 1892 }           |                           |                  |
| Benjamin Franklin Cokely, B.A. } | <i>Vinton, Iowa</i>       | 84 W. D.         |
| Western College 1889 }           |                           |                  |
| Arthur Willis Colton, B.A. }     | <i>Wayne, Mich.</i>       | 116 W. D.        |
| Yale University 1890 }           |                           |                  |
| Egbert Wheeler Cornwall, PH.B. } | <i>Patterson, N. Y.</i>   | 397 Crown st.    |
| Yale University 1892 }           |                           |                  |
| William Ivy Cranford, B.A. }     | <i>Ophir, N. C.</i>       | 297 George st.   |
| Trinity College, N. C., 1891 }   |                           |                  |
| Johannes Heinrich Cuntz, }       | <i>Hoboken, N. J.</i>     | 121 Elm st.      |
| M.E. Stevens Institute 1887 }    |                           |                  |
| Eleanor Evelyn Cutler, B.A. }    | <i>New Haven, Conn.</i>   | 284 Orange st.   |
| Smith College 1892 }             |                           |                  |
| Arthur Louis Day, B.A. }         | <i>Westborough, Mass.</i> | 25 High st.      |
| Yale University 1892 }           |                           |                  |
| Philip Dowell, B.A. }            | <i>Galva, Ill.</i>        | 149 St. John st. |
| Augustana College 1885 }         |                           |                  |
| William Stahl Ebersole, M.A. }   | <i>Mt. Pleasant, Pa.</i>  | 22 Whalley av.   |
| Lebanon Valley College 1888 }    |                           |                  |
| Andrew J. Enstam, B.A. }         | <i>Minneapolis, Minn.</i> | 149 St. John st. |
| Augustana College 1882 }         |                           |                  |

|                                    |                            |                  |
|------------------------------------|----------------------------|------------------|
| Percy Harold Epler, B.A. }         | <i>Jacksonville, Ill.</i>  | 62 Lake pl.      |
| Illinois College 1892 }            |                            |                  |
| Alexander William Evans, M.D. }    | <i>New Haven, Conn.</i>    | 12 High st.      |
| Yale University 1892 }             |                            |                  |
| Edwin Horace Forbes, PH.B. }       | <i>Torrington, Conn.</i>   | Torrington       |
| Yale University 1874 }             |                            |                  |
| Lillian Lee Gardner, }             | <i>Stamford, Conn.</i>     | Stamford         |
| Claverack College 1892 }           |                            |                  |
| Joshua Allen Gilbert, B.A. }       | <i>Dayton, O.</i>          | 50 E. D.         |
| Otterbein University 1889 }        |                            |                  |
| George Herbert Girty, B.A. }       | <i>Cleveland, O.</i>       | 559 Howard av.   |
| Yale University 1892 }             |                            |                  |
| Mary Graham, PH.B. }               | <i>Middletown, Conn.</i>   | 335 Orange st.   |
| Wesleyan University 1889 }         |                            |                  |
| Maria Louise Greene, B.A. }        | <i>Providence, R. I.</i>   | 104 Prospect st. |
| Vassar College 1891 }              |                            |                  |
| Matthew Griswold, Jr., PH.B. }     | <i>Erie, Pa.</i>           | A.               |
| Yale University 1888 }             |                            |                  |
| Hippolyte Gruener, B.A. }          | <i>New Haven, Conn.</i>    | 39 Whiting st.   |
| Yale University 1891 }             |                            |                  |
| Henry Strong Gulliver, B.A. }      | <i>New Haven, Conn.</i>    | 62 Lake pl.      |
| Yale University 1875 }             |                            |                  |
| Alexander Hadlock, B.A. }          | <i>Kalamazoo, Mich.</i>    | 114 Crown st.    |
| Kalamazoo College 1878 }           |                            |                  |
| Ferdinand Albert Häuslein, B.A. }  | <i>Genoa, Ill.</i>         | 123 York st.     |
| Yale University 1892 }             |                            |                  |
| Elizabeth Deering Hanscom, B.A. }  | <i>Lowell, Mass.</i>       | 135 St. John st. |
| Boston University 1887 }           |                            |                  |
| Josiah Harmar, PH.B. }             | <i>Philadelphia, Pa.</i>   | 391 Temple st.   |
| Yale University 1892 }             |                            |                  |
| Harold Hegstrom, B.A. }            | <i>Buffalo, N. Y.</i>      | 149 St. John st. |
| Augustana College 1890 }           |                            |                  |
| Olin Raymond Howe, M.A. }          | <i>Killingworth, Conn.</i> | 53 Prospect st.  |
| Syracuse University 1885 }         |                            |                  |
| Rupert Hughes, B.A. }              | <i>Keokuk, Iowa</i>        | 142 Dwight st.   |
| Western Reserve Univ. 1892 }       |                            |                  |
| Henry Dwight Hunt, PH.B. }         | <i>New Haven, Conn.</i>    | 88 Clark st.     |
| Yale University 1892 }             |                            |                  |
| James W. D. Ingersoll, B.A. }      | <i>Marengo, Ill.</i>       | 90 Park st.      |
| Yale University 1892 }             |                            |                  |
| Kevork Harutune Kazanjian, }       | <i>Aintab, Turkey</i>      | 87 W. D.         |
| B. D. Yale University 1892 }       |                            |                  |
| Josephine Florence King, B.A. }    | <i>South Paris, Me.</i>    | 6 Prospect pl.   |
| Bates College 1892 }               |                            |                  |
| August Wilhelm Kjellstrand, B.A. } | <i>Lindsborg, Kansas</i>   | 96 Greene st.    |
| Augustana College 1885 }           |                            |                  |
| James Hall Mason Knox, Jr., B.A. } | <i>New Haven, Conn.</i>    | 82 Wall st.      |
| Yale University 1892 }             |                            |                  |

|                                   |                            |                  |
|-----------------------------------|----------------------------|------------------|
| David Albert Kreider, B.A. }      | <i>Annville, Pa.</i>       | 55 Prospect st.  |
| Lebanon Valley College 1892 }     |                            |                  |
| Ralph Henry Kunstadter, }         | <i>New York City</i>       | 281 Crown st.    |
| Budapest Oberrealschule 1890 }    |                            |                  |
| Thomas Jay Lloyd, B.A. }          | <i>Orange, N. J.</i>       | 22 Whalley av.   |
| Yale University 1890 }            |                            |                  |
| Daniel Alden Loring, Jr., PH.B. } | <i>New York City</i>       | 227 Crown st.    |
| Yale University 1891 }            |                            |                  |
| Bertha Ellen Lovewell, B.L. }     | <i>Topeka, Kansas</i>      | 70 Whalley av.   |
| Washburn College 1889 }           |                            |                  |
| Walter Irenæus Lowe, B.A. }       | <i>Whitinsville, Mass.</i> | 22 Whalley av.   |
| Yale University 1890 }            |                            |                  |
| Frank Ranney Luckey, B.S. }       | <i>New Haven, Conn.</i>    | 85 Pearl st.     |
| Cornell University 1882, }        |                            |                  |
| B.D. Yale University 1888 }       |                            |                  |
| Boynton Wells McFarland, C.E. }   | <i>New Haven, Conn.</i>    | 405 Temple st.   |
| Yale University 1891 }            |                            |                  |
| Richard Fisher Manning, PH.B. }   | <i>Brooklyn, N. Y.</i>     | 90 Wall st.      |
| Yale University 1892 }            |                            |                  |
| William Dwight Marsh, B.A. }      | <i>Amherst, Mass.</i>      | 373 Crown st.    |
| Amherst College 1888 }            |                            |                  |
| Elliott Marshall, B.A. }          | <i>Montclair, N. J.</i>    | 559 Howard av.   |
| Yale University 1892 }            |                            |                  |
| Arthur Marvin, B.A. }             | <i>Cooperstown, N. Y.</i>  | 11 Lake pl.      |
| Yale University 1891 }            |                            |                  |
| Lafayette Benedict Mendel, B.A. } | <i>Delhi, N. Y.</i>        | 22 Trumbull st.  |
| Yale University 1891 }            |                            |                  |
| James Lee Mitchell, B.A. }        | <i>New Haven, Conn.</i>    | 238 Grand av.    |
| Harvard University 1884 }         |                            |                  |
| John Munroe Moore, B.A. }         | <i>Morgantown, Ky.</i>     | 51 Garden st.    |
| National Normal University 1887 } |                            |                  |
| William Sacheus Morgan, B.D. }    | <i>Argoed, S. Wales</i>    | 571 Elm st.      |
| Yale University 1892 }            |                            |                  |
| Edwin Morrison, PH.B. }           | <i>Cincinnati, O.</i>      | A.               |
| Yale University 1888 }            |                            |                  |
| Edward Lyman Munson, M.D. }       | <i>Whitneyville, Conn.</i> | N. H. Hospital   |
| Yale University 1892 }            |                            |                  |
| John P. Munson, M.S. }            | <i>Shabbona, Ill.</i>      | 149 Dwight st.   |
| Univ. of Wisconsin 1891 }         |                            |                  |
| William James Mutch, B.A. }       | <i>New Haven, Conn.</i>    | 194 Cedar st.    |
| University of Wisconsin 1882, }   |                            |                  |
| B.D. Yale University 1885 }       |                            |                  |
| August Nelson, B.A. }             | <i>Lake City, Minn.</i>    | 149 St. John st. |
| Gustavus Adolphus College 1890 }  |                            |                  |
| Anne Owens, B.A. }                | <i>Hamilton, O.</i>        | 37 College st.   |
| Vassar College 1892 }             |                            |                  |
| Margaretta Palmer, B.A. }         | <i>Branford, Conn.</i>     | Branford         |
| Vassar College 1887 }             |                            |                  |

|   |                          |                   |
|---|--------------------------|-------------------|
| Arthur Chapin Pease, PH.B. }<br>Yale University 1891          | <i>Ellington, Conn.</i>  | 60 Lyon st.       |
| John Inglee Phinney, B.A. }<br>Yale University 1892           | <i>Machias, Me.</i>      | 76 Howe st.       |
| Edward Bagby Pollard, B.A. }<br>Richmond College 1886         | <i>New Haven, Conn.</i>  | 13 Lamberton st.  |
| Miles Albion Pond, PH.B. }<br>Yale University 1892            | <i>Torrington, Conn.</i> | 57 Grove st.      |
| Artemas Ward Reynolds, B.A. }<br>Colgate University 1885      | <i>New Haven, Conn.</i>  | 14 Park st.       |
| Frank Russell Rich, PH.B. }<br>Yale University 1890           | <i>New Haven, Conn.</i>  | 2 Audubon st.     |
| George Samuel Richards, B.D. }<br>Yale University 1891        | <i>Mahanoy City, Pa.</i> | 70 W. D.          |
| Milton Holley Robbins, PH.B. }<br>Yale University 1891        | <i>Lakeville, Conn.</i>  | A.                |
| Charlotte Fitch Roberts, B.A. }<br>Wellesley College 1880     | <i>Greenfield, Mass.</i> | 37 Howe st.       |
| Cornelia H. Bulkley Rogers, B.A. }<br>Wellesley College 1884  | <i>Bridgeport, Conn.</i> | Bridgeport        |
| Sara Bulkley Rogers, M.A. }<br>Cornell University 1891        | <i>Bridgeport, Conn.</i> | 83 Grove st.      |
| Erwin W. Runkle, B.A. }<br>Western College, Iowa, 1890        | <i>Lisbon, Iowa</i>      | 113 Dwight st.    |
| Ida May Schottenfels, PH.B. }<br>Northwestern Univ. 1892      | <i>Chicago, Ill.</i>     | 8 Prospect pl.    |
| Charles Augustus Schumaker, B.A. }<br>Yale University 1892    | <i>Parish, N. Y.</i>     | 126 High st.      |
| Edmund Daniel Scott, B.A. }<br>Yale University 1889           | <i>New Haven, Conn.</i>  | 44 Vernon st.     |
| Mary Augusta Scott, M.A. }<br>Vassar College 1882             | <i>New York City</i>     | 125 High st.      |
| Carl E. Seashore, B.A. }<br>Gustavus Adolphus Coll. 1891      | <i>Dayton, Iowa</i>      | 149 St. John st.  |
| John David Shattuck, PH.B. }<br>Yale University 1891          | <i>Norwich, N. Y.</i>    | 280½ Elm st.      |
| Sarah Margaret Sherrick, PH.B. }<br>Otterbein University 1889 | <i>Everson, Pa.</i>      | 1 Whalley av.     |
| Charlotte T. Sibley, B.A. }<br>Wellesley College 1891         | <i>Belfast, Me.</i>      | 82 Wall st.       |
| Herbert Augustine Smith, B.A. }<br>Yale University 1889       | <i>Worcester, Mass.</i>  | 101 W. D.         |
| Herbert Knox Smith, B.A. }<br>Yale University 1891            | <i>Hartford, Conn.</i>   | 1161 Chapel st.   |
| George Pratt Starkweather, PH.B. }<br>Yale University 1891    | <i>New Haven, Conn.</i>  | N. H. Hospital    |
| Thomas Calhoun Stearns, B.A. }<br>Yale University 1886        | <i>New Haven, Conn.</i>  | 12 University pl. |

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|--|---|
| Susan Dinsmore Tew, B.A. }<br>Smith College 1892   | <i>Jamestown, N. Y.</i> 1494 Chapel st. |
| Adah Josephine Todd, PH.D. }<br>Boston University 1886   | <i>Bridgeport, Conn.</i> Bridgeport     |
| Luther Henry Tucker, Jr., B.A. }<br>Yale University 1891   | <i>Albany, N. Y.</i> 1161 Chapel st.    |
| Kazutami Ukita, }<br>Doshisha Theol. School, Japan, 1879   | <i>Kyoto, Japan</i> 438 Elm st.         |
| Percy Talbot Walden, PH.B. }<br>Yale University 1892   | <i>Brooklyn, N. Y.</i> 123 Park st.     |
| Edwin Alonzo Warfield, B.A. }<br>Western Maryland College 1882,<br>B.D. Yale University 1890       | <i>Urbana, Md.</i> 94 W. D.             |
| William Morris Weller, B.A. }<br>Western Maryland Coll. 1889                                       | <i>Cumberland, Md.</i> 94 W. D.         |
| Lewis Gardner Westgate, M.A. }<br>Harvard University 1892  | <i>Middletown, Conn.</i> 551 Orange st. |
| Henry Lord Wheeler, PH.B. }<br>Yale University 1890  | <i>Chicago, Ill.</i> 126 Wall st.       |
| Albert Lavine Whittaker, B.A. }<br>Yale University 1892  | <i>Cheshire, Conn.</i> Cheshire         |
| Charles Mallory Williams, B.A. }<br>Brooklyn Polytechnic Inst. 1890,<br>PH.B. Yale University 1892 | <i>Brooklyn, N. Y.</i> 2 Hillhouse av.  |
| Clarence Cicero Wilson, B.A. }<br>Yale University 1892   | <i>Avon, Conn.</i> 117 Elm st.          |
| Katharine Margaret Wolfe, B.S. }<br>Adrian College 1889  | <i>Tiffin, O.</i> 92 York sq.           |
| Laura Johnson Wylie, B.A. }<br>Vassar College 1877   | <i>Brooklyn, N. Y.</i> 83 Grove st.     |

GRADUATE STUDENTS, 125

# ACADEMICAL DEPARTMENT (YALE COLLEGE)

## SENIOR CLASS

|  |                               |                  |
|--|-------------------------------|------------------|
| Franklin Jones Abbe                                    | <i>Hartford, Conn.</i>        | 156 F.           |
| Henry Crosby Allen                                     | <i>Paterson, N. J.</i>        | 329 W.           |
| John Weston Allen                                      | <i>New York City</i>          | 123 N.           |
| Lafon Allen  | <i>Louisville, Ky.</i>        | 268 L.           |
| Joseph Anderson, Jr.                                   | <i>Waterbury, Conn.</i>       | 120 N.           |
| Christopher Lester Avery, Jr.                          | <i>Groton, Conn.</i>          | 134 F.           |
| John Whitney Avery                                     | <i>New Haven, Conn.</i>       | 28 S.            |
| James Addison Babbitt                                  | <i>West Brattleboro', Vt.</i> | 127 N.           |
| Henry Selden Bacon                                     | <i>Rochester, N. Y.</i>       | 245 L.           |
| Henry Burr Barnes, Jr.                                 | <i>New York City</i>          | 230 D.           |
| Ellery Alphonso Bates                                  | <i>Windham, Conn.</i>         | 122 N.           |
| Henry Colwell Beadleston                               | <i>New York City</i>          | 204 D.           |
| George Palmer Beebe                                    | <i>Norfolk, Conn.</i>         | 168 F.           |
| William Reynolds Begg                                  | <i>Hendersonville, N. C.</i>  | 26 S.            |
| Ralph Birdsall   | <i>Los Angeles, Cal.</i>      | 78 Ward st.      |
| Harry Llewellyn Bixby                                  | <i>Long Beach, Cal.</i>       | 225 D.           |
| Clifford Douglas Bliss                                 | <i>New York City</i>          | 175 F.           |
| William Bradford Boardman                              | <i>New Britain, Conn.</i>     | 103 N.           |
| Gerald Mark Borden                                     | <i>Chicago, Ill.</i>          | 163 F.           |
| Charles Wilder Bosworth                                | <i>Springfield, Mass.</i>     | 247 L.           |
| Harry Howard Bottome                                   | <i>New York City</i>          | 249 L.           |
| Howard Sidney Bowns                                    | <i>Fort Hamilton, N. Y.</i>   | 201 D.           |
| Henry Dana Bradley                                     | <i>New Haven, Conn.</i>       | Main st. (Annex) |
| William Edwin Breckenridge                             | <i>Palmer, Mass.</i>          | 127 N.           |
| Thomas Hamilton Breeze                                 | <i>San Francisco, Cal.</i>    | 149 F.           |
| George Justus Briggs                                   | <i>Danielsonville, Conn.</i>  | 58 W. D.         |
| Theodore Louis Bristol                                 | <i>Ansonia, Conn.</i>         | 162 F.           |
| Frank James Brown                                      | <i>Warren, Pa.</i>            | 122 N.           |
| Lawrence Edward Brown                                  | <i>New York City</i>          | 165 F.           |
| Wendell Greene Brownson                                | <i>Noroton Heights, Conn.</i> | 156 F.           |
| Cornelius Sanford Bull                                 | <i>Terryville, Conn.</i>      | 260 L.           |
| Ross Burchard  | <i>South Norwalk, Conn.</i>   | 210 D.           |
| Frank Howard Button                                    | <i>Peekskill, N. Y.</i>       | 151 F.           |
| Harvey Peter Butz, B.A. }<br>Muhlenberg College 1892 } | <i>Breinigsville, Pa.</i>     | 205 Crown st.    |
| Nehemiah Candee  | <i>Easton, Conn.</i>          | 54 S. M.         |
| William Thomas Capps                                   | <i>Jacksonville, Ill.</i>     | 104 N.           |

|                               |                             |                 |
|-------------------------------|-----------------------------|-----------------|
| Otho Granford Cartwright      | <i>Belmont, N. Y.</i>       | 100 N.          |
| Thomas Ives Chatfield         | <i>Owego, N. Y.</i>         | 86 Broadway     |
| Alvah Stone Chisholm          | <i>Cleveland, O.</i>        | 238 D.          |
| Charles Walker Clark          | <i>Butte City, Mont.</i>    | 226 D.          |
| John Darling Clarke           | <i>Canterbury, Conn.</i>    | 12 S.           |
| James Barclay Cooke           | <i>Paterson, N. J.</i>      | 234 D.          |
| John Smith Cravens            | <i>Kansas City, Mo.</i>     | 105 N.          |
| George Mason Creevey          | <i>Brooklyn, N. Y.</i>      | 250 L.          |
| Beecher Maynard Crouse        | <i>Utica, N. Y.</i>         | 205 D.          |
| Elliot Stone Curtis           | <i>Tidionte, Pa.</i>        | 165 F.          |
| Howard Dorrance Day           | <i>Providence, R. I.</i>    | 9 S.            |
| Robert Kerr Dickerman         | <i>Foxboro, Mass.</i>       | 227 D.          |
| Jonathan Boynton Dill         | <i>Philadelphia, Pa.</i>    | 226 D.          |
| Frank Edward Donnelly         | <i>Oxford, N. Y.</i>        | 37 S. M.        |
| Francis Oswald Dorsey         | <i>Indianapolis, Ind.</i>   | 265 L.          |
| Richard Edward Dunham         | <i>Warren, Pa.</i>          | 85 N. M.        |
| Henry Rutherford Dwight       | <i>Brooklyn, N. Y.</i>      | 255 L.          |
| James Schneider Dwight        | <i>Poughkeepsie, N. Y.</i>  | 163 F.          |
| Winthrop Edwards Dwight       | <i>New Haven, Conn.</i>     | 126 College st. |
| William Walton Eccles         | <i>Auburn, N. Y.</i>        | 131 F.          |
| Charles Brown Eddy            | <i>New Britain, Conn.</i>   | 247 L.          |
| John Percival Edmison         | <i>Sioux Falls, S. Dak.</i> | 212 D.          |
| Charles Hull Ewing            | <i>South Dayton, N. Y.</i>  | 101 N.          |
| Archer Linwood Faxon          | <i>Holbrook, Mass.</i>      | 129 F.          |
| Charles Jarvis Fay            | <i>Hartford, Conn.</i>      | 250 L.          |
| Irving Bruce Ferguson         | <i>New York City</i>        | 308 W.          |
| Henry Horlbeck Ficken         | <i>Charleston, S. C.</i>    | 13 S.           |
| John Howe Field               | <i>Rutland, Vt.</i>         | 227 D.          |
| George Ernest Folk, M.A.      | <i>Mexia, Tex.</i>          | 37 S. M.        |
| Newberry College, S. C., 1892 |                             |                 |
| George Mark Foos              | <i>Springfield, O.</i>      | 233 D.          |
| James Charles Fox             | <i>Clinton, Conn.</i>       | 134 F.          |
| Edson Fessenden Gallaudet     | <i>Washington, D. C.</i>    | 306 W.          |
| Thomas Augustus Gardiner      | <i>Brooklyn, N. Y.</i>      | 236 D.          |
| Frank Edwin Gatchel           | <i>Louisville, Ky.</i>      | 268 L.          |
| Rufus Macqueen Gibbs          | <i>Baltimore, Md.</i>       | 225 Crown st.   |
| Giles Frederic Goodenough     | <i>Winchester, Conn.</i>    | 17 S.           |
| James Edward Grafton          | <i>Norwich, Conn.</i>       | 82 Olive st.    |
| Charles Andrew Graham         | <i>Denver, Col.</i>         | 217 D.          |
| Arthur Lawrence Greer         | <i>New York City</i>        | 235 D.          |
| William Henry Hackett         | <i>New Haven, Conn.</i>     | 143 West st.    |
| Donald Cameron Haldeman       | <i>Harrisburg, Pa.</i>      | 253 L.          |
| Montgomery Hare               | <i>New York City</i>        | 206 D.          |
| Clarence Clifford Harmstad    | <i>Jersey City, N. J.</i>   | 201 D.          |



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|---|------------------------------|------------------|
| Allyn Fitch Harvey                                      | <i>Cleveland, O.</i>         | 257 L.           |
| Frank William Hastings, Jr.                             | <i>Bradford, Pa.</i>         | 131 F.           |
| Logan Hay   | <i>Springfield, Ill.</i>     | 203 D.           |
| Theodore Woolsey Heermance                              | <i>New Haven, Conn.</i>      | 168 F.           |
| Charles Ralph Hickox, Jr.                               | <i>New York City</i>         | 149 F.           |
| William McKimmie Higgins                                | <i>Thompsonville, Conn.</i>  | 8 S.             |
| Frederick Asbury Hill                                   | <i>Norwalk, Conn.</i>        | 302 W.           |
| James Norman Hill                                       | <i>St. Paul, Minn.</i>       | 1076 Chapel st.  |
| John Payson Hobbie                                      | <i>Casenevia, N. Y.</i>      | 233 D.           |
| Ben Hodge   | <i>St. Paul, Minn.</i>       | 266 L.           |
| Richard Thayer Holbrook                                 | <i>New York City</i>         | 162 F.           |
| John LeRoy Hurlbert                                     | <i>Forestville, N. Y.</i>    | 104 N.           |
| Shubael Cady Hutchins                                   | <i>Danielsonville, Conn.</i> | 12 S.            |
| Sherwood Bissell Ives                                   | <i>New York City</i>         | 235 D.           |
| Harry Benjamin Jepson                                   | <i>New Haven, Conn.</i>      | 123 N.           |
| Jesse Breland Johnson, B.A. }<br>Baylor University 1891 | <i>Cookville, Tex.</i>       | 33 Lake pl.      |
| Alfred Henry Jones                                      | <i>St. Louis, Mo.</i>        | 277 L.           |
| Charles Davies Jones                                    | <i>Cincinnati, O.</i>        | 205 D.           |
| Riverda Harding Jordan                                  | <i>St. Joseph, Mo.</i>       | 100 N.           |
| Homer Thrall Joy  | <i>Newark, N. J.</i>         | 228 D.           |
| Walter Parmelee Judson                                  | <i>New Haven, Conn.</i>      | 204 Winthrop av. |
| Paul Klimpke  | <i>Hartford, Conn.</i>       | 98 N.            |
| Adrian VanSinderen Lambert                              | <i>New York City</i>         | 287 W.           |
| Edwin Ruthven Lamson                                    | <i>Montclair, N. J.</i>      | 125 N.           |
| William Judson Lamson                                   | <i>Montclair, N. J.</i>      | 125 N.           |
| Irwin Boyle Laughlin                                    | <i>Pittsburgh, Pa.</i>       | 234 D.           |
| Burton Emerson Leavitt                                  | <i>New Haven, Conn.</i>      | 48 Gill st.      |
| Frederick Merwin Lloyd                                  | <i>New Haven, Conn.</i>      | 154 F.           |
| Arthur Power Lord                                       | <i>New York City</i>         | 212 D.           |
| Irving Phillips Lyon                                    | <i>Hartford, Conn.</i>       | 260 L.           |
| William James McKenna                                   | <i>Westborough, Mass.</i>    | 27 S.            |
| Stuart McKnight   | <i>Louisville, Ky.</i>       | 137 F.           |
| William Maffitt   | <i>St. Louis, Mo.</i>        | 265 L.           |
| Arthur James Martin                                     | <i>Deckertown, N. J.</i>     | 124 N.           |
| George Greene Martin                                    | <i>St. Louis, Mo.</i>        | 13 S.            |
| Walter Rumsey Marvin                                    | <i>Pittsburgh, Pa.</i>       | 249 L.           |
| Edward Thomson Mathison                                 | <i>New Haven, Conn.</i>      | 2 Audubon st.    |
| Alfred Kindred Merritt                                  | <i>Brainerd, Minn.</i>       | 41 High st.      |
| Charles William Mills                                   | <i>Denver, Col.</i>          | 217 D.           |
| George Edward Mills                                     | <i>Norwood, O.</i>           | 211 D.           |
| Franklin Arthur Moore                                   | <i>Detroit, Mich.</i>        | 225 D.           |
| John Stanley Moore                                      | <i>Syracuse, N. Y.</i>       | 204 D.           |
| John Hill Morgan  | <i>Brooklyn, N. Y.</i>       | 218 D.           |

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|-----------------------------------|--------------------------------|-----------------|
| Albert Hooker Morse               | <i>Plantsville, Conn.</i>      | 124 N.          |
| William Henry Murphy              | <i>Southville, Mass.</i>       | 6 Garden st.    |
| Alfred Goldstein Nadler           | <i>New Haven, Conn.</i>        | 122 Olive st.   |
| Emerson Root Newell               | <i>Bristol, Conn.</i>          | 103 N.          |
| William Lewis Newton              | <i>Brooklyn, N. Y.</i>         | 24 S.           |
| William Allan Osborn              | <i>Cleveland, O.</i>           | 238 D.          |
| William White Wilson Parker       | <i>Washington, D. C.</i>       | 206 D.          |
| Francis Parsons                   | <i>Hartford, Conn.</i>         | 306 W.          |
| George Leete Peck                 | <i>Jamaica, N. Y.</i>          | 151 F.          |
| Alton William Peirce              | <i>Athol Center, Mass.</i>     | 181 LYC.        |
| Albert Wells Pettibone, Jr.       | <i>LaCrosse, Wisc.</i>         | 214 D.          |
| Charles Macauley Pope             | <i>St. Louis, Mo.</i>          | 272 L.          |
| Albert Hutchinson Putney          | <i>Newton Highlands, Mass.</i> | 72 N. M.        |
| Harry Campbell Quintard           | <i>Sound Beach, Conn.</i>      | 78 N. M.        |
| Gerald Laurence Rathbone          | <i>Albany, N. Y.</i>           | 106 N.          |
| George Howard Rice                | <i>Springfield, Mass.</i>      | 98 N.           |
| John Trumbull Robinson            | <i>Hartford, Conn.</i>         | 230 D.          |
| Joseph Roby                       | <i>Rochester, N. Y.</i>        | 106 N.          |
| Derby Rogers                      | <i>New York City</i>           | 128 N.          |
| Robert Edwin Rowley               | <i>Williamsport, Pa.</i>       | 120 N.          |
| Louis Barcroft Runk               | <i>Philadelphia, Pa.</i>       | 211 D.          |
| Herbert Irving Sackett            | <i>New Haven, Conn.</i>        | 127 College st. |
| William Clement Scott             | <i>Newburgh, N. Y.</i>         | 210 D.          |
| Samuel Scoville, Jr.              | <i>Stamford, Conn.</i>         | 109 N.          |
| Hubert Merrill Sedgwick           | <i>Bondsville, Mass.</i>       | 54 S. M.        |
| Albert Judson Shaw                | <i>Somerville, Mass.</i>       | 24 S.           |
| George Theron Slade               | <i>New York City</i>           | 218 D.          |
| William Warren Smith              | <i>Buffalo, N. Y.</i>          | 287 W.          |
| George Brown Spalding             | <i>Syracuse, N. Y.</i>         | 92 N. M.        |
| Samuel Reid Spencer               | <i>Suffield, Conn.</i>         | 101 N.          |
| Henry Crosby Stetson              | <i>Bangor, Me.</i>             | 245 L.          |
| Robbins Battell Stoeckel          | <i>New Haven, Conn.</i>        | 167 F.          |
| Wendell Melville Strong           | <i>Montclair, N. J.</i>        | 28 S.           |
| Carlyle Edgar Sutphen, Jr.        | <i>Newark, N. J.</i>           | 317 W.          |
| Noah Haynes Swayne, 2d            | <i>New York City</i>           | 203 D.          |
| Moses Taylor                      | <i>New York City</i>           | 236 D.          |
| William Stoutenborough Terriberry | <i>Paterson, N. J.</i>         | 329 W.          |
| John Booth Thomas                 | <i>Rockville, Conn.</i>        | 53 S. M.        |
| Herbert Gorden Thomson            | <i>New York City</i>           | 128 N.          |
| Dexter Edgar Tilley               | <i>W. Springfield, Mass.</i>   | 53 S. M.        |
| Horace Gates Torbert              | <i>Dubuque, Iowa</i>           | 214 D.          |
| Edward Holman Tracy               | <i>Topeka, Kan.</i>            | 72 N. M.        |
| Robert Storer Tracy               | <i>Plainfield, N. J.</i>       | 239 D.          |
| Thomas Cann Trask                 | <i>Scranton, Pa.</i>           | 109 High st.    |

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|---------------------------------|----------------------------|-----------------|
| Charles Gallaudet Trumbull      | <i>Philadelphia, Pa.</i>   | 228 D.          |
| Harry Selden Valle              | <i>Oak Park, Ill.</i>      | 41 High st.     |
| Isidore Wachsman                | <i>Albany, N. Y.</i>       | 209 D.          |
| Robert Buchanan Wade            | <i>St. Louis, Mo.</i>      | 277 L.          |
| Richard Charles Wells Wadsworth | <i>New Brighton, N. Y.</i> | 105 N.          |
| Alexander Hamilton Wallis       | <i>East Orange, N. J.</i>  | 1076 Chapel st. |
| John Dorrance Warnock           | <i>Geneva, N. Y.</i>       | 8 S.            |
| Lemuel Aikin Welles             | <i>Newington, Conn.</i>    | 9 S.            |
| Ernest Hubbard Wells            | <i>Louisville, Ky.</i>     | 116 W. D.       |
| Carl Westerfeld                 | <i>San Francisco, Cal.</i> | 319 W.          |
| Arthur Leslie Wheeler           | <i>Hartford, Conn.</i>     | 26 S.           |
| Webster Wheelock                | <i>St. Paul, Minn.</i>     | 266 L.          |
| Albert Beebe White              | <i>Holbrook, Mass.</i>     | 129 F.          |
| John Harvey Wigginton           | <i>Bladensburg, Md.</i>    | 12 Edgewood av. |
| Walter Dwight Wilcox            | <i>Washington, D. C.</i>   | 303 W.          |
| Edward Mason Williams           | <i>Cleveland, O.</i>       | 257 L.          |
| Morris Woodruff, Jr.            | <i>New York City</i>       | 317 W.          |
| Alfred Charles Woolner          | <i>Peoria, Ill.</i>        | 209 D.          |
| Wilbur Seaman Wright            | <i>Greenwich, Conn.</i>    | 39 S. M.        |
| Frederick Washburn Yates        | <i>Plainfield, N. J.</i>   | 239 D.          |

SENIORS, 186

## JUNIOR CLASS

|                              |                               |             |
|------------------------------|-------------------------------|-------------|
| Samuel Stokes Allen          | <i>Philadelphia, Pa.</i>      | 6 S.        |
| William Boyd Allison, Jr.    | <i>Dubuque, Iowa</i>          | 138 F.      |
| Thomas Shaw Arbuthnot        | <i>Pittsburgh, Pa.</i>        | 241 L.      |
| Frederick Searles Armstrong  | <i>Brooklyn, N. Y.</i>        | 154 F.      |
| Raymond Holbrook Arnot       | <i>Exeter, N. H.</i>          | 10 S.       |
| William Bacon Bailey         | <i>Springfield, Mass.</i>     | 69 N. M.    |
| Harry Samuel Bandler         | <i>Owego, N. Y.</i>           | 264 L.      |
| Alexis Painter Bartlett      | <i>Farmington, Conn.</i>      | 295 W.      |
| William Spencer Beard        | <i>South Killingly, Conn.</i> | 31 S.       |
| André Alden Beaumont         | <i>Wilkes-Barré, Pa.</i>      | 315 W.      |
| Albert Anson Bigelow         | <i>St. Paul, Minn.</i>        | Dwight Hall |
| Charles Benjamin Bishop, Jr. | <i>Litchfield, Conn.</i>      | 273 L.      |
| Clinton Spencer Bissell      | <i>Litchfield, Conn.</i>      | 85 N. M.    |
| Samuel Burr Sherwood Bissell | <i>New York City</i>          | 241 L.      |
| Edward Richmond Bosley       | <i>Geneseo, N. Y.</i>         | 187 C.      |
| Frederick Merrell Boyer      | <i>Watertown, N. Y.</i>       | 172 F.      |
| Albert Simmons Briggs        | <i>North Dighton, Mass.</i>   | 69 N. M.    |
| Edward Harold Bronson        | <i>Norwich, Conn.</i>         | 87 N. M.    |
| Alphonso Bickford Brown      | <i>Dover, N. H.</i>           | 31 S.       |

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| James Crosby Brown                                       | <i>New York City</i>       | 325 W.          |
| James Elwyn Brown  | <i>Pittsburgh, Pa.</i>     | 324 W.          |
| Pratt Anthony Brown, }<br>S. A. Mercer University 1892 } | <i>Macon, Ga.</i>          | 337 Orange st.  |
| Albert Henry Buck  | <i>Baltimore, Md.</i>      | 285 W.          |
| Charles Herbert Buell                                    | <i>Brooklyn, N. Y.</i>     | 274 L.          |
| Frank Scott Bunnell                                      | <i>Stratford, Conn.</i>    | 252 L.          |
| Calvin Burr  | <i>Auburn, N. Y.</i>       | 294 W.          |
| Walter Reid Callender                                    | <i>Providence, R. I.</i>   | 208 D.          |
| Ira Merrill Carley                                       | <i>New Haven, Conn.</i>    | 133 College st. |
| George Bowen Case  | <i>Kansas City, Mo.</i>    | 180 LYC.        |
| Patrick Joseph Cassidy                                   | <i>Norwich, Conn.</i>      | 1090 Chapel st. |
| John Payson Chamberlain                                  | <i>Seneca Falls, N. Y.</i> | 254 L.          |
| Frederick Shepard Chapman                                | <i>Saybrook, Conn.</i>     | 43 S. M.        |
| Frank Herbert Chase                                      | <i>Haverhill, Mass.</i>    | 133 College st. |
| William Genung Chase                                     | <i>Eddytown, N. Y.</i>     | 90 N. M.        |
| William Henry Clark, Jr.                                 | <i>Saginaw, Mich.</i>      | 289 W.          |
| Ward Robinson Clarke                                     | <i>Candor, N. Y.</i>       | 3 S.            |
| Alexander Sessums Cleveland                              | <i>Houston, Tex.</i>       | 226 York st.    |
| Thomas Cochran, Jr.                                      | <i>St. Paul, Minn.</i>     | 166 F.          |
| Ezra Hoyt Connell  | <i>Scranton, Pa.</i>       | 283 W.          |
| Joseph Platt Cooke                                       | <i>Oakland, Cal.</i>       | 263 L.          |
| William Clayton Crafts                                   | <i>Austin, Ill.</i>        | 231 D.          |
| Erastus Milo Cravath, Jr.                                | <i>Nashville, Tenn.</i>    | 299 W.          |
| Charles Frederic Crawford                                | <i>Chicago, Ill.</i>       | 208 D.          |
| George Marshall Crawford                                 | <i>Topeka, Kan.</i>        | 132 F.          |
| Ferdinand Swift Crosley                                  | <i>Springfield, Mass.</i>  | 157 F.          |
| Walter Barnes Crutenden                                  | <i>East River, Conn.</i>   | 43 S. M.        |
| Thomas Frederick Davies, Jr.                             | <i>Detroit, Mich.</i>      | 328 W.          |
| Henry Shepherd Dawson                                    | <i>New Haven, Conn.</i>    | 142 Dwight st.  |
| Edward Marvin Day  | <i>Colchester, Conn.</i>   | 107 W. D.       |
| Charles I. DeBevoise                                     | <i>Brooklyn, N. Y.</i>     | 289 W.          |
| Allen Ross Defendorf                                     | <i>Fairport, N. Y.</i>     | 62 S. M.        |
| Arthur Gillespie Dickson                                 | <i>Philadelphia, Pa.</i>   | 278 L.          |
| Loten Abijah Dinsmoor                                    | <i>Warren, Pa.</i>         | 1079 Chapel st. |
| Alexander Samuel Diven                                   | <i>Elmira, N. Y.</i>       | 297 W.          |
| Bayard Dominick, Jr.                                     | <i>New York City</i>       | 258 L.          |
| George Francis Dominick, Jr.                             | <i>New York City</i>       | 254 L.          |
| George Elias Dorland                                     | <i>Buffalo, N. Y.</i>      | 259 L.          |
| Winthrop Hillyer Duncan                                  | <i>Lowell, Mass.</i>       | 140 F.          |
| Casselberry Dunkerson                                    | <i>Evansville, Ind.</i>    | 330 W.          |
| Harry Westbrook Dunning                                  | <i>Boston, Mass.</i>       | 60 S. M.        |
| Frederick Dwight   | <i>Brooklyn, N. Y.</i>     | 255 L.          |
| George Francis Eaton                                     | <i>New Haven, Conn.</i>    | 70 Sachem st.   |

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|---|----------------------------------|-----------------|
| Theodore Eaton  | <i>Wakefield, Mass.</i>          | 64 S. M.        |
| Thomas Long Ellis   | <i>Portland, Me.</i>             | 57 S. M.        |
| Arthur Wells Elting                                       | <i>Upper Red Hook, N. Y.</i>     | 32 S.           |
| Henry Lane Eno  | <i>Saugatuck, Conn.</i>          | 325 W.          |
| John Mackintosh Ferguson                                  | <i>Pittsburgh, Pa.</i>           | 130 F.          |
| Albert Nelson Cheney Fowler                               | <i>Glens Falls, N. Y.</i>        | 321 W.          |
| George Howard Fox   | <i>New York City</i>             | 174 F.          |
| Clinton Hart Furbish                                      | <i>Spencerport, N. Y.</i>        | A.              |
| Fred D. Gallup  | <i>Smethport, Pa.</i>            | 274 L.          |
| Winfred Ernest Garrison, }<br>B. A. Eureka College 1892 } | <i>St. Louis, Mo.</i>            | 439 George st.  |
| Edward Joseph Garvan                                      | <i>East Hartford, Conn.</i>      | 1010 Chapel st. |
| Charles Henry George                                      | <i>Milwaukee, Wisc.</i>          | 130 F.          |
| Merwin Jephtha Gibbons                                    | <i>New Haven, Conn.</i>          | 138 Park st.    |
| Louis Packard Gillespie                                   | <i>New York City</i>             | 66 W. D.        |
| Thomas Warrington Gosling                                 | <i>Cincinnati, O.</i>            | 10 S.           |
| John Henry Goss   | <i>Waterbury, Conn.</i>          | 298 W.          |
| Allen Greeley   | <i>Jacksonville, Fla.</i>        | 138 F.          |
| Gervase Green   | <i>St. Helens, England</i>       | 97 N.           |
| Nathan Williams Green                                     | <i>Worcester, Mass.</i>          | 119 N.          |
| Warren William Guthrie, Jr.                               | <i>Atchison, Kan.</i>            | 107 N.          |
| Charles Henry Hall, Jr.                                   | <i>Brooklyn, N. Y.</i>           | 252 L.          |
| John Loomer Hall  | <i>Willimantic, Conn.</i>        | 304 W.          |
| Frank Manson Haradon                                      | <i>Marshalltown, Iowa</i>        | 182 LYC.        |
| Meredith Hare   | <i>New York City</i>             | 284 W.          |
| Amos Thompson Harrington                                  | <i>Lyons, N. Y.</i>              | 241 Sherman av. |
| James Anderson Hawes                                      | <i>New York City</i>             | 288 W.          |
| Fidelio Sharp Henry                                       | <i>Chicago, Ill.</i>             | 42 S. M.        |
| Everett Gleason Hill                                      | <i>Madison, Conn.</i>            | 190 C.          |
| George Cooley Hixon                                       | <i>La Crosse, Wisc.</i>          | 296 W.          |
| Ralph Winthrop Holmes                                     | <i>West Winsted, Conn.</i>       | 326 W.          |
| Hamilton Holt   | <i>Spuyten Duyvil, N. Y.</i>     | 174 F.          |
| Edwin Olaf Holter   | <i>Helena, Mont.</i>             | 293 W.          |
| Walter Mayo Hood  | <i>Auburn, N. Y.</i>             | 62 S. M.        |
| Lloyd Mortimer Howell                                     | <i>West Hampton Beach, N. Y.</i> | 279 L.          |
| John Howland  | <i>New York City</i>             | 222 D.          |
| Charles Nelson Hulburt                                    | <i>Norwich, Conn.</i>            | 182 LYC.        |
| Ralph Squire Hull   | <i>Scranton, Pa.</i>             | 140 F.          |
| Caleb Samuel Jackson                                      | <i>Allegheny, Pa.</i>            | 310 W.          |
| Robert Campbell James                                     | <i>Baltimore, Md.</i>            | 297 W.          |
| Charles Orlando Jenkins                                   | <i>Cleveland, O.</i>             | 59 S. M.        |
| James Sinclair Jenkins                                    | <i>Stamford, Conn.</i>           | 222 D.          |
| Nathan Hall Jewett  | <i>Buffalo, N. Y.</i>            | 229 D.          |
| Lawrence Bullard Jones                                    | <i>Wilkes-Barre, Pa.</i>         | 285 W.          |

|                               |                      |                 |
|-------------------------------|----------------------|-----------------|
| Arthur Judson                 | Montclair, N. J.     | 59 S. M.        |
| Frederick Love Keays          | North Berwick, Me.   | 61 S. M.        |
| Herbert Humphrey Kellogg      | Carthage, Mo.        | 80 N. M.        |
| Charles Garfield King         | Chicago, Ill.        | 224 D.          |
| Rufus King                    | Cincinnati, O.       | 1018 Chapel st. |
| Edward Kirkland               | Utica, N. Y.         | 327 W.          |
| Ernest Knaebel                | Santa Fé, N. M.      | 61 S. M.        |
| Clarence Hinman Lake          | New Haven, Conn.     | 137 College st. |
| George Bigelow Bartlett Lamb  | New Haven, Conn.     | 584 Chapel st.  |
| Howard Asa Lamprey            | Laconia, N. H.       | 38 S. M.        |
| John Edward Lane              | North Hadley, Mass.  | 11 S.           |
| Edward Herman Lay             | Fulton, Ill.         | 88 N. M.        |
| William Henry Leete           | Thompsonville, Conn. | 38 S. M.        |
| James Patrick Linahan         | New Haven, Conn.     | 27 S.           |
| Albert William Lindeke        | St. Paul, Minn.      | 114 High st.    |
| Charles Pleasants Lineaweaver | Pottsville, Pa.      | 164 F.          |
| Raymond Lloyd                 | Cincinnati, O.       | 237 D.          |
| Frederick Ayres Lockwood      | Norwalk, Conn.       | 237 D.          |
| Ralph Longenecker             | Bedford, Pa.         | 169 F.          |
| Ralph Reed Lounsbury          | Hartford, Conn.      | 64 S. M.        |
| Walter Whitney Lounsbury      | New Haven, Conn.     | 164 F.          |
| Charles Noyes Loveland        | Wilkes-Barré, Pa.    | 262 L.          |
| Dean Belden Lyman             | Salt Lake City, Utah | 242 L.          |
| Frederick Henry Lynch         | Peace Dale, R. I.    | 192 C.          |
| George Day McBirney           | Chicago, Ill.        | 316 W.          |
| William Wickliffe McCandless  | Pittsburgh, Pa.      | 169 F.          |
| Edward Hill McCray            | Rockville, Conn.     | 81 N. M.        |
| Hall Park McCullough          | Bennington, Vt.      | 269 L.          |
| Frank Elmer McDuffee          | Bradford, Vt.        | 11 S.           |
| Buell McKeever                | Chicago, Ill.        | 165 York st.    |
| Winthrop McKim                | New York City        | 324 W.          |
| Kirk Crawford McKinney        | Pueblo, Col.         | 291 W.          |
| Harry Brent Mackoy            | Covington, Ky.       | 286 W.          |
| Philip Hamilton McMillan      | Detroit, Mich.       | 178 LVC.        |
| John Albert Matthewman        | New Haven, Conn.     | 561 Howard av.  |
| Guy Bryan Miller              | New Rochelle, N. Y.  | 291 W.          |
| Pendleton Miller              | Olympia, Wash.       | 148 F.          |
| Winlock William Miller        | Olympia, Wash.       | 148 F.          |
| Arthur Mitchell, Jr.          | New York City        | 273 L.          |
| William Russell Moorhouse     | Chicago, Ill.        | 264 L.          |
| George Denison Morgan         | New York City        | 226 Crown st.   |
| Joseph Elias Morgan           | Essex, Conn.         | 97 N.           |
| John Edward Morley            | Saginaw, Mich.       | 280 L.          |
| Henry Perkins Moseley         | New Haven, Conn.     | 286 W.          |

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|-------------------------------|-----------------------------|-----------------|
| Oliver Clayton Mosman         | <i>St. Joseph, Mo.</i>      | 152 F.          |
| Walter Fletcher Murray        | <i>Plainfield, N. J.</i>    | 229 D.          |
| Robert Hubbard Nelson         | <i>Bridgeport, Conn.</i>    | 57 Lake pl.     |
| Robert Hastings Nichols       | <i>Binghamton, N. Y.</i>    | 74 N. M.        |
| Alvin Probasco Nipgen         | <i>Chillicothe, O.</i>      | 67 W. D.        |
| Cyrus Clarke Nolan            | <i>Chicago, Ill.</i>        | 119 N.          |
| Henry Shore Noon              | <i>Gloucester, Mass.</i>    | 191 C.          |
| Daniel O'Day, Jr.             | <i>Buffalo, N. Y.</i>       | 152 F.          |
| George William Olmsted        | <i>Buffalo, N. Y.</i>       | 305 W.          |
| Samuel Lowry Orr              | <i>Evansville, Ind.</i>     | 330 W.          |
| Charles Grosvenor Osgood, Jr. | <i>Wellsborough, Pa.</i>    | 190 C.          |
| Ralph Delahay Paine           | <i>St. Augustine, Fla.</i>  | 224 D.          |
| Frederick Curtis Perkins      | <i>Sharon, Pa.</i>          | 320 W.          |
| Henry Bishop Perkins, Jr.     | <i>Warren, O.</i>           | 320 W.          |
| Frederick Torrel Persons      | <i>Sandisfield, Mass.</i>   | 60 S. M.        |
| Ansel Phelps                  | <i>New York City</i>        | 248 L.          |
| Isaac King Phelps             | <i>Thompsonville, Conn.</i> | 88 N. M.        |
| Decius Latimer Pierson        | <i>Hartford, Conn.</i>      | 295 W.          |
| Frank Lyon Polk               | <i>New York City</i>        | 221 D.          |
| Alfred Macauley Pope          | <i>St. Louis, Mo.</i>       | 272 L.          |
| Alonzo Potter                 | <i>New York City</i>        | 221 D.          |
| James Tracy Potter            | <i>North Adams, Mass.</i>   | 231 D.          |
| Warwick James Price           | <i>Cleveland, O.</i>        | 242 L.          |
| Edward Franklin Raymond       | <i>Chicago, Ill.</i>        | 107 York st.    |
| William Miner Raymond         | <i>Chicago, Ill.</i>        | 305 W.          |
| Edward John Redington         | <i>Syracuse, N. Y.</i>      | 1090 Chapel st. |
| Edward Bliss Reed             | <i>Holyoke, Mass.</i>       | 269 L.          |
| Harry Simeon Richardson       | <i>Chicago, Ill.</i>        | 280 L.          |
| Ernest Lauren Robinson        | <i>Meriden, Conn.</i>       | 81 N. M.        |
| Charles Philemon Rowley       | <i>Poughkeepsie, N. Y.</i>  | 157 F.          |
| Albert Thorpe Ryan            | <i>Washington, D. C.</i>    | 132 F.          |
| George Hope Ryder             | <i>Plainfield, N. J.</i>    | 193 C.          |
| William Henry Sallmon         | <i>London, Canada</i>       | 72 W. D.        |
| Walter Edward Sanders         | <i>Auburndale, Mass.</i>    | 1090 Chapel st. |
| Charles William Sanders       | <i>Worcester, Mass.</i>     | 57 S. M.        |
| James Cowan Sawyer            | <i>Dover, N. H.</i>         | 294 W.          |
| Origen Storrs Seymour, Jr.    | <i>Bridgeport, Conn.</i>    | 328 W.          |
| Joseph Earl Sheffield         | <i>Attleboro, Mass.</i>     | 322 W.          |
| Harry Shevelson Silverstein   | <i>Denver, Col.</i>         | 25 S.           |
| Eugene Wilson Skelton         | <i>Brooklyn, N. Y.</i>      | 7 S.            |
| Charles Rives Skinker         | <i>St. Louis, Mo.</i>       | 322 W.          |
| Charles Albert Smith          | <i>Bridgeport, Conn.</i>    | 147 F.          |
| Howard Franklin Smith         | <i>Hartford, Conn.</i>      | 6 S.            |
| Leonard Bacon Smith           | <i>New York City</i>        | 1079 Chapel st. |

|                               |                              |                  |
|-------------------------------|------------------------------|------------------|
| Letchworth Smith              | <i>Auburn, N. Y.</i>         | Dwight Hall      |
| Rest Fenner Smith, Jr.        | <i>East Orange, N. J.</i>    | 7 S.             |
| Charles James Sniffen         | <i>Stratford, Conn.</i>      | 147 F.           |
| John Beach Solley, Jr.        | <i>Brooklyn, N. Y.</i>       | 232 D.           |
| Carl Frederic Stahl           | <i>New Haven, Conn.</i>      | 556 Chapel st.   |
| Walter Eugene Stewart, Jr.    | <i>Plainfield, N. J.</i>     | 232 D.           |
| Leland Stanford Stillman      | <i>Brooklyn, N. Y.</i>       | 166 F.           |
| Alfred Worthington Stone      | <i>New York City</i>         | 279 L.           |
| Edward Merrell Stothers       | <i>Staten Island, N. Y.</i>  | 32 S.            |
| Andrew Sandford Taylor        | <i>South Orange, N. J.</i>   | 87 N. M.         |
| James Henry Taylor            | <i>Charleston, S. C.</i>     | 56 W. D.         |
| Edward Russell Thomas         | <i>New York City</i>         | 326 W.           |
| William Edward Thoms          | <i>Waterbury, Conn.</i>      | 74 N. M.         |
| William Josiah Tilson         | <i>Clear Branch, Tenn.</i>   | 91 N. M.         |
| William Todd                  | <i>Calais, Me.</i>           | 318 W.           |
| Ralph Tousey                  | <i>Brooklyn, N. Y.</i>       | 256 L.           |
| George Marcy Townsend         | <i>Hartford, Conn.</i>       | 256 L.           |
| James Rutherford Trowbridge   | <i>Chicago, Ill.</i>         | 262 L.           |
| Henry Brownell Tucker         | <i>Troy, N. Y.</i>           | 318 W.           |
| Willard Gibbs VanName         | <i>New Haven, Conn.</i>      | 121 High st.     |
| George Finch VanSlyck         | <i>New York City</i>         | 193 C.           |
| William Stuart Walcott, Jr.   | <i>New York Mills, N. Y.</i> | 180 LVC.         |
| James Alexander Waller        | <i>Chicago, Ill.</i>         | 321 W.           |
| Milton Jones Warner           | <i>Salisbury, Conn.</i>      | 298 W.           |
| Walter Abbott Waterman        | <i>Griswold, Conn.</i>       | 34 Hillhouse av. |
| Frederic Jabez Waters         | <i>Cincinnati, O.</i>        | 294 Elm st.      |
| Harry Little Welch            | <i>New Haven, Conn.</i>      | 278 L.           |
| Milton Ferdinand Westheimer   | <i>St. Joseph, Mo.</i>       | 25 S.            |
| Shelton King Wheeler          | <i>Chattanooga, Tenn.</i>    | 263 L.           |
| Ellsworth Daggett Whiting     | <i>Aurora, Ill.</i>          | 172 F.           |
| Jay Edmund Whiting            | <i>Granville, N. Y.</i>      | 312 Elm st.      |
| Harry Payne Whitney           | <i>New York City</i>         | 178 LVC.         |
| James Dawes Williams          | <i>North Adams, Mass.</i>    | 160 F.           |
| Nathaniel Niles Wilson        | <i>San Francisco, Cal.</i>   | 1157 Chapel st.  |
| Thomas Melvill Womersley      | <i>Greenfield, Mass.</i>     | 141 F.           |
| William Wallace Woodruff, Jr. | <i>Knoxville, Tenn.</i>      | 259 L.           |
| Charles Francis Word          | <i>Helena, Mont.</i>         | 293 W.           |
| Richard Hardesty Worthington  | <i>Baltimore, Md.</i>        | 316 W.           |
| William Runk Wright           | <i>New York City</i>         | 248 L.           |

JUNIORS, 232



## SOPHOMORE CLASS

|                               |                                   |                 |
|-------------------------------|-----------------------------------|-----------------|
| Daniel Crouse Adams           | <i>Utica, N. Y.</i>               | 109 Wall st.    |
| George Townsend Adece         | <i>Bartow on the Sound, N. Y.</i> | 155 Elm st.     |
| Benjamin Chauncey Allen       | <i>Chicago, Ill.</i>              | 159 Elm st.     |
| Walter Hinds Allen            | <i>New York City</i>              | 40 S. M.        |
| George Buell Alvord           | <i>Torrington, Conn.</i>          | 68 N. M.        |
| Henry Andrew Baker            | <i>Union Hill, N. Y.</i>          | 187 C.          |
| Edward Chauncey Baldwin       | <i>West Cornwall, Conn.</i>       | 80 N. M.        |
| Roger Sherman Baldwin         | <i>New York City</i>              | 1024 Chapel st. |
| Ulysses Simpson Grant Bassett | <i>New Haven, Conn.</i>           | 427 Temple st.  |
| George Ezra Batcheller        | <i>New York City</i>              | 155 Elm st.     |
| William Langdon Beadleston    | <i>New York City</i>              | 1142 Chapel st. |
| Willoughby Pierce Beam        | <i>Buffalo, N. Y.</i>             | 1150 Chapel st. |
| Anson McCook Beard            | <i>Poughkeepsie, N. Y.</i>        | 155 Elm st.     |
| Samuel Fayerweather Beardsley | <i>Bridgeport, Conn.</i>          | 163 York st.    |
| Edward William Beattie, Jr.   | <i>Helena, Mont.</i>              | 179 LYC.        |
| Martin Luther Beeler          | <i>Mossy Creek, Tenn.</i>         | 91 N. M.        |
| Julian Cone Bingham           | <i>Northampton, Mass.</i>         | 95 N. M.        |
| Matthew Sterling Borden       | <i>New York City</i>              | 1076 Chapel st. |
| Walter Stanton Brewster       | <i>Chicago, Ill.</i>              | 75 N. M.        |
| John Henri Brown              | <i>East Granville, Mass.</i>      | 315 Crown st.   |
| George Clark Bryant           | <i>Ansonia, Conn.</i>             | 1018 Chapel st. |
| Hiram Arthur Bryant           | <i>Andover, Mass.</i>             | 127 Howe st.    |
| Edward Taylor Buckingham      | <i>Bridgeport, Conn.</i>          | Bridgeport.     |
| Mortimer Norton Buckner       | <i>New Orleans, La.</i>           | 1142 Chapel st. |
| Arthur Bumstead               | <i>Atlanta, Ga.</i>               | 93 N. M.        |
| Frederick William Burge       | <i>Brooklyn, N. Y.</i>            | 7 Library st.   |
| Ralph Houghton Burns          | <i>Le Mars, Iowa</i>              | 40 S. M.        |
| Frank Seiler Butterworth      | <i>Washington, D. C.</i>          | 139 F.          |
| Harold Edgar Buttrick         | <i>Brooklyn, N. Y.</i>            | 1079 Chapel st. |
| Benjamin Stickney Cable       | <i>Chicago, Ill.</i>              | 219 D.          |
| Gustaf Birger Carlson         | <i>Higganum, Conn.</i>            | 67 N. M.        |
| Arthur Fuller Carpenter       | <i>Rome, N. Y.</i>                | 9 Library st.   |
| William Carson                | <i>Chillicothe, O.</i>            | 276 Crown st.   |
| Walter Frederick Carter       | <i>Brooklyn, N. Y.</i>            | 263 Crown st.   |
| Julian Ingersoll Chamberlain  | <i>New York City</i>              | 258 L.          |
| George Peabody Chandler       | <i>Germantown, Pa.</i>            | 240 D.          |
| Gordon Baldwin Chase          | <i>Lyndon, Vt.</i>                | 20 S.           |
| Charles Bolmar Cheyney        | <i>Washington, D. C.</i>          | 20 S.           |
| Arthur Boughton Chivers       | <i>Buffalo, N. Y.</i>             | 270 L.          |
| Ulysses Grant Church          | <i>Chaplin, Conn.</i>             | 67 N. M.        |
| Alexander Ray Clark           | <i>Cincinnati, O.</i>             | 1142 Chapel st. |

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|-----------------------------|------------------------------|-----------------|
| Clement George Clarke       | <i>Manhattan, Kansas</i>     | 219 York st.    |
| Charles Frederic Clemons    | <i>Manchester, Vt.</i>       | 107 N.          |
| Clarence Edward Clough      | <i>Wilmot Flat, N. H.</i>    | 143 F.          |
| Leonard Atwood Comstock     | <i>Cooperstown, N. Y.</i>    | 295 York st.    |
| Mortimer Smith Comstock     | <i>Bridgeport, Conn.</i>     | 242 York st.    |
| Theodore Edwin Connell      | <i>Scranton, Pa.</i>         | 283 W.          |
| Clifford Semple Cook        | <i>Cincinnati, O.</i>        | 16 S.           |
| Walter Evans Cooke          | <i>Paterson, N. J.</i>       | 64 High st.     |
| James Earnest Cooper        | <i>New Britain, Conn.</i>    | 75 N. M.        |
| William Maltby Copp         | <i>New York City</i>         | 135 F.          |
| Parker Corning              | <i>Albany, N. Y.</i>         | 170 York st.    |
| Benjamin Frank Corwin       | <i>Baiting Hollow, N. Y.</i> | 333 Crown st.   |
| Abraham Beekman Cox, Jr.    | <i>Cherry Valley, N. Y.</i>  | 121 Elm st.     |
| Percy Waldron Crane         | <i>Montclair, N. J.</i>      | 44 S. M.        |
| George Everett Darling      | <i>Port Jefferson, N. Y.</i> | 113 N.          |
| Samuel Boyd Darling         | <i>Somerville, Mass.</i>     | 153 F.          |
| Benjamin Davis              | <i>Chicago, Ill.</i>         | 283 Crown st.   |
| Thomas McElrath Debevoise   | <i>New York City</i>         | 271 L.          |
| Frederick Marcy DeForest    | <i>Washington, D. C.</i>     | 84 N. M.        |
| William Adams Delano        | <i>Philadelphia, Pa.</i>     | 1142 Chapel st. |
| William Lester Dench        | <i>Bridgeport, Conn.</i>     | 163 York st.    |
| Lindsay Denison             | <i>Washington, D. C.</i>     | 84 N. M.        |
| Lamont Dominick             | <i>New York City</i>         | 301 W.          |
| James Avery Draper, Jr.     | <i>Wilmington, Del.</i>      | 139 F.          |
| Henry Peck Driggs           | <i>Waterbury, Conn.</i>      | 1142 Chapel st. |
| John Joseph Dunn            | <i>New Haven, Conn.</i>      | 921 Grand av.   |
| Benjamin Harrison Dwight    | <i>Poughkeepsie, N. Y.</i>   | 173 F.          |
| Thomas Dyer                 | <i>Woodstock, Vt.</i>        | 170 York st.    |
| William Spencer Eakin       | <i>New London, Conn.</i>     | 1142 Chapel st. |
| Stillman Witt Eells         | <i>Cleveland, O.</i>         | 300 W.          |
| Arthur Hibbert Eggleston    | <i>New London, Conn.</i>     | 44 S. M.        |
| John Elliott                | <i>Martinsville, N. J.</i>   | 332 York st.    |
| Elmore Franklin Elmore      | <i>Troy, N. Y.</i>           | 231 York st.    |
| Philip Saffery Evans, Jr.   | <i>New Haven, Conn.</i>      | 32 Trumbull st. |
| Samuel Alexander Everitt    | <i>Scarsdale, N. Y.</i>      | 96 N. M.        |
| Henry Farnam                | <i>New Haven, Conn.</i>      | 153 F.          |
| William Henry Ferris        | <i>New Haven, Conn.</i>      | 87 Eaton st.    |
| Edward Ridley Finch         | <i>Plainfield, N. J.</i>     | 1010 Chapel st. |
| Sherman Knevals Foote       | <i>New York City</i>         | 1010 Chapel st. |
| William Kingsley Fowler     | <i>Brooklyn, N. Y.</i>       | 250 York st.    |
| Frederick Steinman Franklin | <i>Lancaster, Pa.</i>        | 179 LYC.        |
| Lewis Fox Frissell          | <i>New York City</i>         | 133 F.          |
| Frederic Ruthven Galacar    | <i>Hartford, Conn.</i>       | 176 F.          |
| Charles Sumner Gale         | <i>Minneapolis, Minn.</i>    | 236 Crown st.   |

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|---------------------------|----------------------------------|-----------------|
| Michael Gavin             | <i>Memphis, Tenn.</i>            | 364 George st.  |
| George Jay Gibson, Jr.    | <i>Peoria, Ill.</i>              | 44 Elm st.      |
| Elwin Hayes Gleason       | <i>Colorado Springs, Col.</i>    | 551 Orange st.  |
| John Edward Good          | <i>Denver, Col.</i>              | 173 F.          |
| Silas Hurlbut Goodenough  | <i>Winchester, Conn.</i>         | 17 S.           |
| Fred Chapman Goddwin      | <i>Biddeford, Me.</i>            | 236 Crown st.   |
| George Hinman Gurnee      | <i>Nyack, N. Y.</i>              | 1018 Chapel st. |
| Clarence Wells Halbert    | <i>St. Paul, Minn.</i>           | 332 Temple st.  |
| Hugh Tyler Halbert        | <i>St. Paul, Minn.</i>           | 332 Temple st.  |
| Laurens Hamilton          | <i>New York City</i>             | 64 High st.     |
| Fred Holcomb Hamlin       | <i>East Bloomfield, N. Y.</i>    | 254 York st.    |
| George Wright Hamlin      | <i>Canandaigua, N. Y.</i>        | 236 Crown st.   |
| Charles Newberry Hammond  | <i>Sparrow Bush, N. Y.</i>       | 22 S.           |
| Frank John Harris         | <i>New York City</i>             | 159 York st.    |
| Henry Wilson Harris       | <i>East Orange, N. J.</i>        | 309 W.          |
| Francis Burton Harrison   | <i>New York City</i>             | 220 D.          |
| John Heermans             | <i>Corning, N. Y.</i>            | 236 Crown st.   |
| Yandell Henderson         | <i>Louisville, Ky.</i>           | 62 Trumbull st. |
| Burton Jesse Hendrick     | <i>New Haven, Conn.</i>          | 506 Howard av.  |
| Louis Hewlett             | <i>Cold Spring Harbor, N. Y.</i> | 1010 Chapel st. |
| Shirley Tredway High      | <i>Chicago, Ill.</i>             | 1018 Chapel st. |
| Charles Lyon Hill         | <i>Greenfield Hill, Conn.</i>    | 295 York st.    |
| Frank Augustus Hinkey     | <i>Tonawanda, N. Y.</i>          | 285 York st.    |
| Everett Winslow Hobart    | <i>Cincinnati, O.</i>            | 246 L.          |
| Louis Halsey Holden       | <i>Newark, N. J.</i>             | 1150 Chapel st. |
| Joseph Bernard Hone       | <i>Rochester, N. Y.</i>          | 270 Crown st.   |
| James Fisk Hooker         | <i>Brattleboro, Vt.</i>          | 240 D.          |
| Frank Winfield Hubby, Jr. | <i>Cleveland, O.</i>             | 126 High st.    |
| Alfred Burdette Hughes    | <i>New Haven, Conn.</i>          | 309 W.          |
| John Louis Hunt           | <i>Hopewell, N. J.</i>           | 49 S. M.        |
| John Llewellyn Hutchins   | <i>Andover, Me.</i>              | 49 S. M.        |
| Charles Cheney Hyde       | <i>Chicago, Ill.</i>             | 292 W.          |
| Henry Neal Hyde           | <i>Syracuse, N. Y.</i>           | 276 Crown st.   |
| Frederic Ives             | <i>New Haven, Conn.</i>          | 478 Orange st.  |
| George Jacobus            | <i>Springfield, Mass.</i>        | 99 N.           |
| Frederick Pitkin James    | <i>Lockport, N. Y.</i>           | 166 York st.    |
| Edward Clinton Jones      | <i>New Haven, Conn.</i>          | 84 William st.  |
| Isaac M. Jordan, Jr.      | <i>Cincinnati, O.</i>            | 16 S.           |
| George Dwight Kellogg     | <i>St. Louis, Mo.</i>            | 108 N.          |
| Paul Kennaday             | <i>Montclair, N. J.</i>          | 1010 Chapel st. |
| Norton Adams Kent         | <i>Fordham, N. Y.</i>            | 222 Crown st.   |
| Max Howard Kershaw        | <i>Philadelphia, Pa.</i>         | 23 S.           |
| William Keyser, Jr.       | <i>Baltimore, Md.</i>            | 36 E. D.        |
| Charles Adams Kimball     | <i>Littleton, Mass.</i>          | 99 N.           |

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|---------------------------|----------------------------|------------------|
| Frederick Augustus King   | <i>Providence, R. I.</i>   | 121 York st.     |
| Charles Kingsley, Jr.     | <i>Paris, France</i>       | 131 High st.     |
| Louis Williams Ladd       | <i>New Haven, Conn.</i>    | 204 Prospect st. |
| Franklin Lawrence Lee     | <i>New York City</i>       | 64 High st.      |
| Howard Barnes Lee         | <i>Louisville, Ky.</i>     | 27 High st.      |
| John Aloysius Lee         | <i>New Britain, Conn.</i>  | 52 E. D.         |
| Albert David Levi         | <i>Erie, Pa.</i>           | 423 Temple st.   |
| George Augustus Lewis     | <i>Hudson, N. Y.</i>       | 96 N. M.         |
| Herbert Richard Limburger | <i>New York City</i>       | 233 York st.     |
| Edwin Carlyle Lobenstine  | <i>New York City</i>       | 48 S. M.         |
| John Lewis Lockwood, Jr.  | <i>New York City</i>       | 200 York st.     |
| Thomas Brown Lockwood     | <i>Buffalo, N. Y.</i>      | 159 Elm st.      |
| John McClintock Longacre  | <i>Philadelphia, Pa.</i>   | 142 F.           |
| Harry Frank Loomis        | <i>New York City</i>       | 310 W.           |
| Lloyd Lowndes, Jr.        | <i>Cumberland, Md.</i>     | 1010 Chapel st.  |
| Richard Tasker Lowndes    | <i>Cumberland, Md.</i>     | 1010 Chapel st.  |
| David Brainard Lyman, Jr. | <i>LaGrange, Ill.</i>      | 1079 Chapel st.  |
| Edward Branch Lyman       | <i>Greenfield, Mass.</i>   | 219 York st.     |
| William Grant McCann      | <i>Philadelphia, Pa.</i>   | 71 N. M.         |
| John MacGregor            | <i>Akron, O.</i>           | 31 E. D.         |
| Lanier McKee              | <i>Washington, D. C.</i>   | 1079 Chapel st.  |
| John Dun McKell           | <i>Chillicothe, O.</i>     | 23 S.            |
| Guy Richards McLane       | <i>New York City</i>       | 223 D.           |
| Russell Almeron Marks     | <i>Sioux City, Iowa</i>    | 143 College st.  |
| Charles Mason Martin      | <i>Norwich, N. Y.</i>      | 56 S. M.         |
| Roswell Bertram Mason     | <i>Chicago, Ill.</i>       | 219 D.           |
| David Bartine Melick      | <i>Gladstone, N. J.</i>    | 96 N. M.         |
| Henry Giles Miller, Jr.   | <i>Chicago, Ill.</i>       | 64 High st.      |
| David Diamond Mitchell    | <i>Wichita, Kansas</i>     | 186 C.           |
| John Grant Mitchell, Jr.  | <i>Columbus, O.</i>        | 55 S. M.         |
| Phelps Montgomery         | <i>Portland, Oregon</i>    | 1010 Chapel st.  |
| John King Moore           | <i>Hartford, Conn.</i>     | 281 L.           |
| William Arthur Moore      | <i>Watertown, N. Y.</i>    | 65 N. M.         |
| Charles Gould Morris      | <i>New Haven, Conn.</i>    | 63 S. M.         |
| Samuel Isaac Motter       | <i>St. Joseph, Mo.</i>     | 68 N. M.         |
| John Burnet Nash          | <i>Syracuse, N. Y.</i>     | 146 F.           |
| Robert Cecil Nesbit       | <i>New York City</i>       | 170 York st.     |
| Julian St. John Nolan     | <i>Chicago, Ill.</i>       | 170 York st.     |
| Joseph Ripley Noyes       | <i>Stamford, Conn.</i>     | 77 W. D.         |
| Herbert Chester Nutting   | <i>Mount Vernon, N. Y.</i> | 97 Olive st.     |
| Alfred Townsend Osgood    | <i>Rochester, N. Y.</i>    | 270 Crown st.    |
| Ervin Edward Osgood       | <i>New Britain, Conn.</i>  | 108 N.           |
| Roswell Parish, Jr.       | <i>Brookline, Mass.</i>    | 166 York st.     |
| Henry Douglas Parmelee    | <i>New Haven, Conn.</i>    | 140 College st.  |

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|---------------------------------|----------------------------|-----------------|
| Henry Ivison Parsons            | <i>New York City</i>       | 242 York st.    |
| William Edward Parsons          | <i>Akron, O.</i>           | 183 LYC.        |
| William Knapp Payne             | <i>Auburn, N. Y.</i>       | 1024 Chapel st. |
| Rowland Gardiner Paynter        | <i>Georgetown, Del.</i>    | 163 York st.    |
| Augustus Stephen Peabody, 2d    | <i>Chicago, Ill.</i>       | 1018 Chapel st. |
| Howard Whiting Pease            | <i>Thomaston, Conn.</i>    | 113 N.          |
| Josiah Henry Peck               | <i>Bristol, Conn.</i>      | 76 N. M.        |
| Tracy Peck, Jr.                 | <i>New Haven, Conn.</i>    | 124 High st.    |
| Robert Augustine Peet           | <i>Brooklyn, N. Y.</i>     | 142 F.          |
| James Herbert Perrin            | <i>Lafayette, Ind.</i>     | 146 F.          |
| George Alexander Phelps         | <i>Stamford, Conn.</i>     | 155 Elm st.     |
| Ziba Bennett Phelps             | <i>Wilkes-Barre, Pa.</i>   | 1079 Chapel st. |
| Frederick Holbrook Rawson       | <i>Chicago, Ill.</i>       | 168 York st.    |
| Charles Howard Remington        | <i>Brooklyn, N. Y.</i>     | 277 Crown st.   |
| William George Reynolds         | <i>Watertown, Conn.</i>    | 93 N. M.        |
| James Harris Richards           | <i>Stamford, N. Y.</i>     | 186 C.          |
| William Martin Richards         | <i>New Haven, Conn.</i>    | 1076 Chapel st. |
| George Chalmers Richmond        | <i>Easthampton, Mass.</i>  | 97 Olive st.    |
| Lewis Sterrett Sadler           | <i>Carlisle, Pa.</i>       | 205 Crown st.   |
| Henry Williams Sage, 2d         | <i>Ithaca, N. Y.</i>       | 155 Elm st.     |
| Nelson Walling Sayles           | <i>Millbury, Mass.</i>     | 1010 Chapel st. |
| Harry Sargeant Scarborough      | <i>Baltimore, Md.</i>      | 94 N. M.        |
| Alfred Egmont Schermerhorn      | <i>New York City</i>       | 155 Elm st.     |
| William Herbert Scoville        | <i>Stamford, Conn.</i>     | 109 N.          |
| William Langdon Scoville        | <i>Montpelier, Vt.</i>     | 189 C.          |
| Arthur Behn Shepley             | <i>St. Louis, Mo.</i>      | 1076 Chapel st. |
| Alburn Edward Skinner           | <i>Ottawa, Kansas</i>      | 117 Greene st.  |
| William Sloane                  | <i>New York City</i>       | 223 D.          |
| Horace Mann Snyder              | <i>Vineland, N. J.</i>     | 143 F.          |
| Eugene Nathan Solomon           | <i>New York City</i>       | 29 High st.     |
| John Bissell Speer              | <i>Pittsburgh, Pa.</i>     | 1142 Chapel st. |
| Benjamin Ives Spock             | <i>New Haven, Conn.</i>    | 209 Orange st.  |
| William Judd Starkweather, Jr.  | <i>New York City</i>       | 163 York st.    |
| Howard White Starr              | <i>New York City</i>       | 1076 Chapel st. |
| John Keim Stauffer              | <i>Reading, Pa.</i>        | 110 Olive st.   |
| Ernest Guy Stevens              | <i>Wells, Me.</i>          | 116 N.          |
| Thomas Horace Stevenson         | <i>Hartwell, O.</i>        | 116 N.          |
| Harry Lockman Street            | <i>Chicago, Ill.</i>       | 86 W. D.        |
| Joseph Rockwell Swan            | <i>Stamford, Conn.</i>     | 55 S. M.        |
| John Gardner Talcott            | <i>Talcottville, Conn.</i> | 282 L.          |
| John Frelinghuysen Talmage, Jr. | <i>Brooklyn, N. Y.</i>     | 323 W.          |
| Emerson Gifford Taylor          | <i>Hartford, Conn.</i>     | 282 L.          |
| Harry Knous Taylor              | <i>Hartford, Conn.</i>     | 270 L.          |
| Hartley Wales Thayer            | <i>Holbrook, Mass.</i>     | 66 N. M.        |

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|-----------------------------|--------------------------------|-----------------|
| George Herbert Thomas       | <i>Providence, R. I.</i>       | 31 E. D.        |
| Hermann Thomas              | <i>Chicago, Ill.</i>           | 144 F.          |
| Ford William Thompson       | <i>St. Louis, Mo.</i>          | 231 York st.    |
| William DeForest Thomson    | <i>New York City</i>           | 271 L.          |
| Charles Storey Thurston     | <i>Whitinsville, Mass.</i>     | 183 LYC.        |
| Thomas Andrew Tracy         | <i>Bristol, Conn.</i>          | 189 C.          |
| George Frederick Truesdell  | <i>Washington, D. C.</i>       | 227 Crown st.   |
| Ralph DeForest Tucker       | <i>Monson, Mass.</i>           | 71 N. M.        |
| Roger Walker Tuttle         | <i>New Haven, Conn.</i>        | 63 S. M.        |
| Fred Sylvester Tyler        | <i>Hammononton, N. J.</i>      | 94 N. M.        |
| Samuel Tyler                | <i>Newton Highlands, Mass.</i> | 176 F.          |
| Selden Williams Tyler       | <i>Tylerville, Conn.</i>       | 66 N. M.        |
| Cornelius Vanderbilt, Jr.   | <i>New York City</i>           | 220 D.          |
| George Knight Budd Wade     | <i>St. Louis, Mo.</i>          | 114 High st.    |
| Fred Uri Wadhams            | <i>New Haven, Conn.</i>        | 101 Lake pl.    |
| James Colby Walworth        | <i>Newton, Mass.</i>           | 281 L.          |
| Allen Wardwell              | <i>New York City</i>           | 242 York st.    |
| Spencer Kellogg Warnick     | <i>Amsterdam, N. Y.</i>        | 126 High st.    |
| George Howard Warrington    | <i>Cincinnati, O.</i>          | 246 L.          |
| John Roach Wathen           | <i>Louisville, Ky.</i>         | 135 F.          |
| Charles Heald Weller        | <i>Watkins, N. Y.</i>          | 282 George st.  |
| Harry Dauchy West           | <i>Plainfield, N. J.</i>       | 73 N. M.        |
| Charles Augustus Wheeler    | <i>Trumbull, Conn.</i>         | 65 N. M.        |
| John Walker Wheeler         | <i>Bridgeport, Conn.</i>       | 1010 Chapel st. |
| William Mills Wheeler       | <i>Stratford, Conn.</i>        | 297 York st.    |
| Roger Widdrington Whinfield | <i>Fond du Lac, Wisc.</i>      | 44 Elm st.      |
| Raymond Sandford White      | <i>New York City</i>           | 1024 Chapel st. |
| George Parker Wiley         | <i>Charleston, Ill.</i>        | 73 N. M.        |
| Robert Wilkinson            | <i>Poughkeepsie, N. Y.</i>     | 144 F.          |
| John Reed Williams          | <i>Chicago, Ill.</i>           | 1142 Chapel st. |
| Herbert Witherspoon         | <i>New Haven, Conn.</i>        | 38 Elm st.      |

SOPHOMORES, 248

## FRESHMAN CLASS

|                                 |                             |                  |
|---------------------------------|-----------------------------|------------------|
| Benjamin Adams                  | <i>Wethersfield, Conn.</i>  | 1079 Chapel st.  |
| Charles Siedler Adams           | <i>Brooklyn, N. Y.</i>      | 99 Howe st.      |
| John Chester Adams              | <i>Brookline, Mass.</i>     | 14 S.            |
| Marcellin Cote Adams            | <i>Pittsburgh, Pa.</i>      | 242 York st.     |
| Eugene Davenport Alexander      | <i>New Brighton, N. Y.</i>  | 313 York st.     |
| Philip Ray Allen                | <i>Walpole, Mass.</i>       | 188 C.           |
| Arnon Augustus Alling           | <i>New Haven, Conn.</i>     | 30 Mansfield st. |
| Samuel Morgan Alvord            | <i>Bolton, Conn.</i>        | 112 N.           |
| Thomas Frothingham Archbald     | <i>Scranton, Pa.</i>        | 216 D.           |
| Wheeler Armstrong, Jr.          | <i>Rome, N. Y.</i>          | 142 York st.     |
| William Jerome Armstrong        | <i>Decatur, Ill.</i>        | 1010 Chapel st.  |
| William Ansel Arnold            | <i>Willimantic, Conn.</i>   | 231 York st.     |
| George Edward Atherton, Jr.     | <i>Brookline, Mass.</i>     | 84 Park st.      |
| Edgar Stirling Auchincloss      | <i>New York City</i>        | 170 York st.     |
| Leonard Beaumont Bacon          | <i>Rochester, N. Y.</i>     | 159 F.           |
| Philip Horton Bailey            | <i>Windsor Locks, Conn.</i> | 314 W.           |
| Henry Dunster Baker             | <i>Chicago, Ill.</i>        | 26 High st.      |
| Owen Calvin, Baker              | <i>Penfield, N. Y.</i>      | 82 N. M.         |
| Austin Baldwin, Jr.             | <i>New York City</i>        | 31 High st.      |
| Mark Baldwin                    | <i>Jacksonville, Ill.</i>   | 110 N.           |
| Kneeland Ball                   | <i>Buffalo, N. Y.</i>       | 38 Elm st.       |
| James Arthur Ballentine         | <i>Boise City, Idaho</i>    | 124 W. D.        |
| William Mossgrove Beard         | <i>Poughkeepsie, N. Y.</i>  | 109 York st.     |
| Arthur Hillier Beaty            | <i>Detroit, Mich.</i>       | 26 Howe st.      |
| Alfred Horatio Belo, Jr.        | <i>Dallas, Tex.</i>         | 29 S.            |
| George Merrill Bemis            | <i>Brookfield, Mass.</i>    | 117 Park st.     |
| Harry Hobart Benedict           | <i>New Haven, Conn.</i>     | 431 Orange st.   |
| Fred Fox Bennett                | <i>Hartford, Conn.</i>      | 1157 Chapel st.  |
| Alexander Garner Bentley        | <i>Washington, D. C.</i>    | 231 York st.     |
| John Milton Berdan              | <i>Toledo, O.</i>           | 223 York st.     |
| Thomas Joseph Bergin            | <i>New Haven, Conn.</i>     | 14 Daggett st.   |
| John Kirkman Berry              | <i>Nashville, Tenn.</i>     | 111 N.           |
| Frederick Howell Billard        | <i>Meriden, Conn.</i>       | 285 York st.     |
| Arthur Walker Bingham           | <i>West Cornwall, Vt.</i>   | 254 York st.     |
| Charles William Birely          | <i>Frederick, Md.</i>       | 368 Whalley av.  |
| Henry Richardson Bond, Jr.      | <i>New London, Conn.</i>    | 290 W.           |
| Charles Henry Boyer             | <i>Elkton, Md.</i>          | 82 Bradley st.   |
| Lewis Ladd Brastow              | <i>New Haven, Conn.</i>     | 128 Wall st.     |
| John Elliot Breckenridge        | <i>Palmer, Mass.</i>        | 126 N.           |
| Elbert Adrian Brinckerhoff, Jr. | <i>Englewood, N. J.</i>     | 131 High st.     |
| Daniel Bradley Brinsmade        | <i>Washington, Conn.</i>    | 61 Grove st.     |

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|-----------------------------|--------------------------------|----------------|
| Charles Edward Bristol      | <i>Ansonia, Conn.</i>          | 114 High st.   |
| John Sherrard Brittain, Jr. | <i>St. Joseph, Mo.</i>         | 313 York st.   |
| William Hall Brokaw         | <i>Newburgh, N. Y.</i>         | 56 w. D.       |
| Fritz J. Hanford Brookfield | <i>New York City</i>           | 145 F.         |
| Alexander Brown, Jr.        | <i>Philadelphia, Pa.</i>       | 132 Wall st.   |
| John Mason Brown            | <i>Louisville, Ky.</i>         | 65 w. D.       |
| Thomas Reed Brown, Jr.      | <i>Minneapolis, Minn.</i>      | 314 York st.   |
| William Fuller Brown        | <i>Plattsburgh, N. Y.</i>      | 439 George st. |
| George Sturges Buck         | <i>Buffalo, N. Y.</i>          | 38 Elm st.     |
| George Lamb Buist, Jr.      | <i>Charleston, S. C.</i>       | 383 Crown st.  |
| George Edward Bulkley       | <i>Hartford, Conn.</i>         | 314 w.         |
| John Ladd Burnham           | <i>Springfield, Mass.</i>      | 4 s.           |
| Bertram Joseph Cahn         | <i>Chicago, Ill.</i>           | 223 York st.   |
| Herbert Bishop Carey        | <i>Norwich, Conn.</i>          | 41 s. M.       |
| Theodore Carleton           | <i>Bradford, Mass.</i>         | 37 Lynwood st. |
| John Arthur Carley          | <i>West Groton, Mass.</i>      | 125 Dwight st. |
| William Wallace Chace       | <i>Hudson, N. Y.</i>           | 219 York st.   |
| William Woods Chandler      | <i>New Haven, Conn.</i>        | 31 High st.    |
| Harvey Wood Chapman         | <i>Bridgeport, Conn.</i>       | 18 s.          |
| Douglas Charnley            | <i>Chicago, Ill.</i>           | 254 Crown st.  |
| Ward Cheney                 | <i>South Manchester, Conn.</i> | 159 Elm st.    |
| John Henry Churchill Clark  | <i>Louisville, Ky.</i>         | 261 L.         |
| Thomas Benton Clark         | <i>Allegheny, Pa.</i>          | 170 York st.   |
| Walter Haven Clark          | <i>Hartford, Conn.</i>         | 112 N.         |
| Alexander Smith Cochran     | <i>New York City</i>           | 114 High st.   |
| Charles Coit                | <i>Norwich, Conn.</i>          | 41 s. M.       |
| Christopher Bush Coleman    | <i>Springfield, Ill.</i>       | 22 Lynwood st. |
| Russell Colgate             | <i>Orange, N. J.</i>           | 29 s.          |
| David Hayden Collins        | <i>Pittsburgh, Pa.</i>         | 231 York st.   |
| Edward Day Collins          | <i>Barton Landing, Vt.</i>     | 188 c.         |
| Wendell Phillips Colton     | <i>Brooklyn, N. Y.</i>         | 64 w. D.       |
| Lewis Roberts Conklin       | <i>Monroe, N. Y.</i>           | 310 Elm st.    |
| William Patrick Conly       | <i>Buffalo, N. Y.</i>          | 46 s. M.       |
| Frederick Coonley           | <i>Port Richmond, N. Y.</i>    | 86 York st.    |
| William Henry Corbett       | <i>New York City</i>           | 209 Orange st. |
| Rowland Cox, Jr.            | <i>Plainfield, N. J.</i>       | 159 York st.   |
| Harry Parsons Cross         | <i>Wakefield, R. I.</i>        | 339 George st. |
| William Redmond Cross       | <i>New York City</i>           | 203 York st.   |
| Alfred Loomis Curtiss       | <i>New York City</i>           | 270 Crown st.  |
| Samuel Edward Damon         | <i>Honolulu, H. I.</i>         | 25 High st.    |
| Albert Sargent Davis        | <i>Cincinnati, O.</i>          | 177 F.         |
| Edward Lockwood Davis       | <i>Cleveland, O.</i>           | 205 Crown st.  |
| Clarence Shepard Day, Jr.   | <i>New York City</i>           | 265 Orange st. |
| Sherman Day                 | <i>New York City</i>           | 159 Elm st.    |



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|------------------------------|----------------------------|-----------------|
| Estey Fuller Dayton          | <i>Torrington, Conn.</i>   | 64 Lake pl.     |
| Johnston deForest            | <i>New York City</i>       | 290 w.          |
| Johns Gabriel Henri deSibour | <i>Washington, D. C.</i>   | 254 York st.    |
| Clarence DeWitt              | <i>Portland, Me.</i>       | 311 w.          |
| Sherwood Owen Dickerman      | <i>Orange Park, Fla.</i>   | 159 F.          |
| Guy Phelps Dodge             | <i>New York City</i>       | 99 Wall st.     |
| John Howard Douglass, Jr.    | <i>St. Louis, Mo.</i>      | 252 York st.    |
| Willard Newell Drown         | <i>San Francisco, Cal.</i> | 82 Broadway     |
| Edward Lewis Durfee          | <i>Palmyra, N. Y.</i>      | 107 York st.    |
| John Frederick Eagle         | <i>Brooklyn, N. Y.</i>     | 77 N. M.        |
| George Dyre Eldridge, Jr.    | <i>Washington, D. C.</i>   | 233 York st.    |
| Jay Glover Eldridge          | <i>Penfield, N. Y.</i>     | 18 s.           |
| Richard Fenwick Ely          | <i>New York City</i>       | 313 w.          |
| Richard Pinson Estes         | <i>Memphis, Tenn.</i>      | 297 Crown st.   |
| Hollon Augustine Farr        | <i>Athol, Mass.</i>        | 86 York st.     |
| William Perez Field          | <i>Geneva, N. Y.</i>       | 117 Park st.    |
| Charles Louis Fincke, Jr.    | <i>Brooklyn, N. Y.</i>     | 252 York st.    |
| Harry Johnson Fisher         | <i>New York City</i>       | 77 N. M.        |
| Carroll Hamilton Fitzhugh    | <i>Allegheny, Pa.</i>      | 90 High st.     |
| Michael Flaherty, Jr.        | <i>Birmingham, Conn.</i>   | 1179 Chapel st. |
| Arthur Ellsworth Foote       | <i>New Haven, Conn.</i>    | 19 Howe st.     |
| Fred Albert Forbes           | <i>Chicago, Ill.</i>       | 137 College st. |
| Walter Buhl Ford             | <i>Detroit, Mich.</i>      | 42 Trumbull st. |
| Clarence Vernon Fowler       | <i>Newburgh, N. Y.</i>     | 27 Lynwood st.  |
| James Frank                  | <i>Ogdensburg, N. Y.</i>   | 373 Crown st.   |
| Clement Austin Fuller        | <i>New Haven, Conn.</i>    | 145 Olive st.   |
| Frederick William Gaines     | <i>Cleveland, O.</i>       | 205 Crown st.   |
| John Marshall Gaines         | <i>Albuquerque, N. M.</i>  | 314 Crown st.   |
| William Standish Gaylord     | <i>Norwich, Conn.</i>      | 405 Temple st.  |
| Benjamin Thorn Gilbert       | <i>Clayville, N. Y.</i>    | 251 L.          |
| Murillo Harrison Gillett     | <i>New York City</i>       | 159 York st.    |
| Curtenius Gillette           | <i>New York City</i>       | 159 Elm st.     |
| Emile Godchaux               | <i>New Orleans, La.</i>    | 250 York st.    |
| Richard Johnston Goodman     | <i>Hartford, Conn.</i>     | 47 S. M.        |
| Theodore Meech Gowans        | <i>Buffalo, N. Y.</i>      | 203 York st.    |
| Asahel Henry Grant           | <i>Charleston, S. C.</i>   | 192 C.          |
| George Zabriskie Gray        | <i>New York City</i>       | 203 York st.    |
| Harris Ray Greene            | <i>New York City</i>       | 110 N.          |
| Edward Eugene Gregory        | <i>New York City</i>       | 159 Elm st.     |
| Frank Libby Griffith         | <i>Indianapolis, Ind.</i>  | 22 S.           |
| Maitland Griggs              | <i>Hartford, Conn.</i>     | 45 S. M.        |
| John George Haines           | <i>Paterson, N. J.</i>     | 373 Crown st.   |
| Richard Cameron Haldeman     | <i>Harrisburg, Pa.</i>     | 253 L.          |
| Elbert Bacon Hamlin          | <i>Washington, D. C.</i>   | 119 Park st.    |

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|-------------------------------|----------------------------------|-----------------|
| Paul Delano Hamlin            | <i>Smethport, Pa.</i>            | 134 College st. |
| George Bates Hatch            | <i>Cincinnati, O.</i>            | 121 Elm st.     |
| Frank Stuart Havens           | <i>Hartford, Conn.</i>           | 47 S. M.        |
| Emory Hawes                   | <i>New York City</i>             | 145 F.          |
| Herbert Edwin Hawkes          | <i>Templeton, Mass.</i>          | 120 High st.    |
| Carlos Clayton Heard          | <i>Biddeford, Me.</i>            | 82 Broadway     |
| William Wilson Heaton         | <i>New York City</i>             | 250 York st.    |
| Gilbert Lawrence Hedges       | <i>Oregon City, Oregon</i>       | 242 York st.    |
| Edward Charles Heidrich, Jr.  | <i>Peoria, Ill.</i>              | 40 Elm st.      |
| William Leonard Helfenstein   | <i>Shamokin, Pa.</i>             | 252 York st.    |
| William Lester Henry          | <i>Plattsburgh, N. Y.</i>        | 1361 Chapel st. |
| William Milton Hess           | <i>Philadelphia, Pa.</i>         | 373 Crown st.   |
| Friedrich Wilhelm Hoeninghaus | <i>New York City</i>             | 226 York st.    |
| Harold Goodwin Holcombe       | <i>Hartford, Conn.</i>           | 177 F.          |
| George Clay Hollister         | <i>Grand Rapids, Mich.</i>       | 15 S.           |
| John Chamberlain Hollister    | <i>Grand Rapids, Mich.</i>       | 15 S.           |
| Frank Thomas Hooker           | <i>Ontario Center, N. Y.</i>     | 79 N. M.        |
| Lester Page Hoole             | <i>Brooklyn, N. Y.</i>           | 31 High st.     |
| Charles Vernon Hopkins        | <i>Catskill-on-Hudson, N. Y.</i> | 315 York st.    |
| James Barnett Horton          | <i>Albany, N. Y.</i>             | 333 George st.  |
| Walter Stiles Hoyt            | <i>Stamford, Conn.</i>           | 113 Wall st.    |
| Russell Hulbert               | <i>Middletown, Conn.</i>         | 65 Grove st.    |
| Alexander Everett Hunt, Jr.   | <i>Scranton, Pa.</i>             | 216 D.          |
| Chester Jay Hunt              | <i>Jersey City, N. J.</i>        | 108 Greene st.  |
| James Abbott Hutchinson       | <i>Lynn, Mass.</i>               | 118 College st. |
| Everette Sargent Irwin        | <i>Brookfield, Mass.</i>         | 117 Park st.    |
| Gerard Merrick Ives           | <i>Rome, Italy</i>               | 109 York st.    |
| Frederick Stephen Jackson     | <i>Waterbury, Conn.</i>          | 1179 Chapel st. |
| Frank Mason Jeffrey           | <i>Torrington, Conn.</i>         | 64 Lake pl.     |
| Frederic Blair Johnson        | <i>Unionville, Conn.</i>         | 29 Lake pl.     |
| Henry Selden Johnston         | <i>New York City</i>             | 276 Crown st.   |
| Albert Corey Jones            | <i>New Haven, Conn.</i>          | 84 William st.  |
| Louis Cleveland Jones         | <i>East Durham, N. Y.</i>        | 90 N. M.        |
| Warren Southard Jordan        | <i>Peekskill, N. Y.</i>          | 309 York st.    |
| Thomas Andrew Keck            | <i>East Orange, N. J.</i>        | A.              |
| Albert Galloway Keller        | <i>Milford, Conn.</i>            | 314 Crown st.   |
| William Crissey Kellogg       | <i>New Canaan, Conn.</i>         | 26 Academy st.  |
| Robert Kelly, Jr.             | <i>West Superior, Wisc.</i>      | 89 N. M.        |
| Tom Sidney Kingman            | <i>Orange, N. J.</i>             | 121 York st.    |
| Henry Spies Kip               | <i>New York City</i>             | 250 York st.    |
| James Hoyt Knapp              | <i>South Norwalk, Conn.</i>      | 215 D.          |
| Edgar Conrad Lackland, Jr.    | <i>St. Louis, Mo.</i>            | 1204 Chapel st. |
| Leonard Bronk Lampman         | <i>Newark, N. J.</i>             | 1150 Chapel st. |
| Derick Lane, Jr.              | <i>Troy, N. Y.</i>               | 226 York st.    |

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|-------------------------------|---|
| Frederick Clare Lee           | <i>Port of Spain, Trinidad</i> 126 Wall st.   |
| Charles Bernard Lenahan       | <i>Wilkes-Barré, Pa.</i> 339 George st.       |
| Percival Clement Liscomb      | <i>Albany, N. Y.</i> 215 York st.             |
| Ralph Waldo Lobenstine        | <i>New York City</i> 48 s. M.                 |
| Horace Arthur Loomis          | <i>Brooklyn, N. Y.</i> 99 Howe st.            |
| Christopher Kiersted Loughran | <i>Kingston, N. Y.</i> 120 High st.           |
| Harry Borden Lovell           | <i>Plainfield, N. J.</i> 283 Crown st.        |
| Arthur Lyne Loving            | <i>St. Joseph, Mo.</i> 295 York st.           |
| Robert Lusk                   | <i>Nashville, Tenn.</i> 111 N.                |
| Clarence Oliver McClintock    | <i>Allegheny, Pa.</i> 90 High st.             |
| Henry Edwin McDermott         | <i>New Haven, Conn.</i> 268 Orchard st.       |
| Theodore Dwight McDonald      | <i>New York City</i> 332 Temple st.           |
| McKee Dunn McKee              | <i>Washington, D. C.</i> 1187 Chapel st.      |
| Cyrus Fay Mackey              | <i>Franklin, Pa.</i> 226 York st.             |
| George Xavier McLanahan       | <i>Washington, D. C.</i> 30 s.                |
| George Sutherland McLaren     | <i>Thompsonville, Conn.</i> 79 N. M.          |
| Boyd McLean                   | <i>Jersey City, N. J.</i> 125 Dwight st.      |
| Ray Stearns McLeod            | <i>Stafford Springs, Conn.</i> 405 Temple st. |
| Neil Bernard Mallon           | <i>Cincinnati, O.</i> 1010 Chapel st.         |
| Frederick Whitney Mathews     | <i>Waldoboro, Me.</i> 91 N. M.                |
| Harry Willard Mathews         | <i>New Haven, Conn.</i> 732 Orange st.        |
| Frederic Huntington Mathison  | <i>New Haven, Conn.</i> 2 Audubon st.         |
| William Southworth Miller     | <i>Chicago, Ill.</i> 192 York st.             |
| Ernest Conkling Moore         | <i>Syracuse, N. Y.</i> A.                     |
| Joseph Oudinot Moré           | <i>Easthampton, Mass.</i> 2 S.                |
| William Conger Morgan         | <i>Albany, N. Y.</i> 384 Crown st.            |
| Charles Southerton Morris     | <i>New Haven, Conn.</i> 408 Crown st.         |
| Norris Havemeyer Mundy        | <i>Chicago, Ill.</i> 114 High st.             |
| James Brown Neale             | <i>Kittanning, Pa.</i> 250 York st.           |
| George Henry Nettleton        | <i>Boston, Mass.</i> 161 F.                   |
| Horatio Dalton Newcomb        | <i>Louisville, Ky.</i> 1010 Chapel st.        |
| Theodore Woods Noon           | <i>Shelburne Falls, Mass.</i> 191 C.          |
| Louis Curtis Oakley           | <i>Owego, N. Y.</i> 3 S.                      |
| Edwin Sidney Oviatt           | <i>New Haven, Conn.</i> 24 Howe st.           |
| Warren Prescott Palmer        | <i>Thompsonville, Conn.</i> 95 N. M.          |
| Alfred Day Pardee             | <i>Philadelphia, Pa.</i> 30 S.                |
| Walter Palmer Paret           | <i>South Orange, N. J.</i> 109 York st.       |
| Charles Edwards Park          | <i>Birmingham, Conn.</i> 407 Temple st.       |
| William Lee Patterson         | <i>New Castle, Pa.</i> 297 Crown st.          |
| Thomas Barbour Paxton, Jr.    | <i>Cincinnati, O.</i> 1002 Chapel st.         |
| Howard Seymour Peck           | <i>Bristol, Conn.</i> 76 N. M.                |
| Philip Curran Peck            | <i>Hudson, N. Y.</i> 120 High st.             |
| Charles Alfred Pelton         | <i>Clinton, Conn.</i> 242 York st.            |
| Charles Williams Penrose      | <i>Norfolk, Va.</i> 1090 Chapel st.           |
| Henry Augustus Perkins        | <i>Hartford, Conn.</i> 313 W.                 |

|                            |                            |                    |
|----------------------------|----------------------------|--------------------|
| Stuart Eldred Pierson      | <i>Minneapolis, Minn.</i>  | 314 York st.       |
| Ashley Pond, Jr.           | <i>Detroit, Mich.</i>      | 200 Grove st.      |
| Louis Hopkins Porter       | <i>Stamford, Conn.</i>     | 373 Crown st.      |
| Addison Strong Pratt       | <i>Fairport, N. Y.</i>     | 82 N. M.           |
| Walter Franklin Priuce     | <i>Detroit, Me.</i>        | 61 Dixwell av.     |
| Morris Houghton Reed       | <i>St. Joseph, Mo.</i>     | 317 Crown st.      |
| Thomas Edward Reynolds     | <i>Meriden, Conn.</i>      | 41 High st.        |
| Eugene McJimsey Richmond   | <i>Brooklyn, N. Y.</i>     | 99 Howe st.        |
| Fred Oscar Robbins         | <i>Greenville, N. H.</i>   | 78 N. M.           |
| Wolcott Phelps Robbins     | <i>New York City</i>       | 111 High st.       |
| Edwin Loomis Robinson      | <i>Lebanon, Conn.</i>      | 2 Audubon st.      |
| James Dwight Rockwell      | <i>Washington, D. C.</i>   | 59 Wall st.        |
| Robertson Tyler Root       | <i>Greenwich, Conn.</i>    | 64 Whalley av.     |
| Robert Lawson Ross         | <i>Newburgh, N. Y.</i>     | 27 Lynwood st.     |
| Clinton Joseph Rumrill     | <i>Royalton, Vt.</i>       | 1 S.               |
| Andrew Gregg Curtin Sage   | <i>Ithaca, N. Y.</i>       | 159 Elm st.        |
| Frederic Charles Saunders  | <i>Belfast, N. Y.</i>      | 125 Dwight st.     |
| James Denison Sawyer       | <i>Buffalo, N. Y.</i>      | 114 High st.       |
| George Hayward Schuyler    | <i>Pana, Ill.</i>          | 109 High st.       |
| Rudolph Schwill            | <i>Cincinnati, O.</i>      | 297 Crown st.      |
| Alexander Scott            | <i>Whitinsville, Mass.</i> | 126 N.             |
| Hewlett Scudder, Jr.       | <i>New York City</i>       | 223 York st.       |
| John Arnold Scudder        | <i>Chicago, Ill.</i>       | 134 College st.    |
| Herman Dingwell Sears      | <i>Northampton, Mass.</i>  | 4 S.               |
| Robert Seney, Jr.          | <i>New York City</i>       | 137 Wall st.       |
| Lewis Pendleton Sheldon    | <i>Rutland, Vt.</i>        | 261 L.             |
| Charles Phineas Sherman    | <i>Springfield, Mass.</i>  | 114 Greene st.     |
| Murray Marvin Shoemaker    | <i>Cincinnati, O.</i>      | 250 York st.       |
| Edward Dorland Smith       | <i>Peru, N. Y.</i>         | 2 S.               |
| George Arthur Smith        | <i>Winchester, N. H.</i>   | 39 S. M.           |
| Nathaniel Waite Smith      | <i>Bellows Falls, Vt.</i>  | 120 College st.    |
| Robert Henry Burton Smith  | <i>Sioux City, Iowa</i>    | 14 Whalley av.     |
| Winthrop Davenport Smith   | <i>New York City</i>       | 27 High st.        |
| Harry Alexis Spalding      | <i>New Haven, Conn.</i>    | 9 High st.         |
| Charles Flagg Spellman     | <i>Springfield, Mass.</i>  | 219 York st.       |
| Joseph Marius Spinello     | <i>New Haven, Conn.</i>    | 124 East Pearl st. |
| Solomon Ephraim Spooht     | <i>Odessa, Russia</i>      | 312 Elm st.        |
| Albert Jefferson Squires   | <i>Batavia, N. Y.</i>      | 46 S. M.           |
| Edmund Gerald Stalter      | <i>Paterson, N. J.</i>     | 29 Lake pl.        |
| Douglas Stewart            | <i>Allegheny, Pa.</i>      | 90 High st.        |
| Anson Phelps Stokes, Jr.   | <i>New York City</i>       | 120 High st.       |
| Herbert Gillette Strong    | <i>Winsted, Conn.</i>      | 158 F.             |
| Thomas Shepard Strong, Jr. | <i>New York City</i>       | 142 York st.       |
| David Stuart               | <i>Brooklyn, N. Y.</i>     | 38 Elm st.         |
| Lewis Aaron Sulcov         | <i>Lancaster, Pa.</i>      | 312 Elm st.        |

|                                  |                              |                 |
|----------------------------------|------------------------------|-----------------|
| Eliot Sumner                     | <i>New Haven, Conn.</i>      | 140 Edwards st. |
| James Bogert Tailer              | <i>New York City</i>         | 250 York st.    |
| Huntington Taylor                | <i>Poughkeepsie, N. Y.</i>   | 312 w.          |
| Arthur Ripley Thompson           | <i>Hartford, Conn.</i>       | 120 College st. |
| Frederick Maurice Thompson       | <i>Philadelphia, Pa.</i>     | 62 Lake pl.     |
| Samuel Thorne, Jr.               | <i>New York City</i>         | 254 Crown st.   |
| Samuel Brinckerhoff Thorne       | <i>New York City</i>         | 114 High st.    |
| Asa Currier Tilton               | <i>Raymond, N. H.</i>        | 115 Elm st.     |
| Albert Eugene Von Tobel          | <i>Torrington, Conn.</i>     | 64 Lake pl.     |
| Herbert Ladd Towle               | <i>Dobbs Ferry, N. Y.</i>    | 5 E. D.         |
| Ralph Bishop Treadway            | <i>Sioux City, Iowa</i>      | 14 Whalley av.  |
| Edward Livingston Trudeau, Jr.   | <i>Saranac Lake, N. Y.</i>   | 120 High st.    |
| Henry Adams Truslow              | <i>Summit, N. J.</i>         | 25 High st.     |
| Howland Twombly                  | <i>Newton, Mass.</i>         | 14 S.           |
| Dudley Landon Vail               | <i>West Winsted, Conn.</i>   | 158 F.          |
| Thomas Gaylord Vennum            | <i>Watseka, Ill.</i>         | 99 Howe st.     |
| Wesley Grove Vincent             | <i>Cottage City, Mass.</i>   | 45 S. M.        |
| William Henderson Wadhams        | <i>Wadhams' Mills, N. Y.</i> | 161 F.          |
| Nathaniel Waldron Wallis         | <i>East Orange, N. J.</i>    | 121 York st.    |
| Arthur Gillender Walter          | <i>New Haven, Conn.</i>      | 510 Howard av.  |
| Thomas B. Wells                  | <i>Minneapolis, Minn.</i>    | 158 Whitney av. |
| George Childs Weston             | <i>Honesdale, Pa.</i>        | 226 York st.    |
| Frederick Edward Weyerhaeuser    | <i>St. Paul, Minn.</i>       | 215 D.          |
| Robert Edwin Whalen              | <i>Albany, N. Y.</i>         | 333 George st.  |
| Burton Arthur White              | <i>Brockport, N. Y.</i>      | 312 Elm st.     |
| Joseph Wallace Wickenden         | <i>Buffalo, N. Y.</i>        | 62 Lake pl.     |
| Frederick Henry Wiley            | <i>Indianapolis, Ind.</i>    | 9 Library st.   |
| Norman Williams, Jr.             | <i>Chicago, Ill.</i>         | 113 Wall st.    |
| Norman Alton Williams            | <i>Utica, N. Y.</i>          | 251 L.          |
| Thomas John Wood, Jr.            | <i>Dayton, O.</i>            | 1010 Chapel st. |
| Walter Fargo Wood                | <i>Orange, N. J.</i>         | 1204 Chapel st. |
| William Sayre Woodhull           | <i>Orange, N. J.</i>         | 363 Elm st.     |
| Charles Hornblower Woodruff, Jr. | <i>New York City</i>         | 7 Library st.   |
| Robert Jeremiah Woodruff         | <i>Orange, Conn.</i>         | 107 Temple st.  |
| Daniel Woodbury Wynkoop          | <i>New York City</i>         | 217 York st.    |
| Lewis Rogers Yeaman              | <i>Louisville, Ky.</i>       | 9 Library st.   |
| Ezra Hallock Young               | <i>Orient, N. Y.</i>         | 131 High st.    |

FRESHMEN, 300

## SUMMARY

|            |   |   |   |   |   |           |
|------------|---|---|---|---|---|-----------|
| SENIORS    | . | . | . | . | . | 186       |
| JUNIORS    | . | . | . | . | . | 232       |
| SOPHOMORES | . | . | . | . | . | 248       |
| FRESHMEN   | . | . | . | . | . | 300       |
|            |   |   |   |   |   | <hr/> 966 |

# SHEFFIELD SCIENTIFIC SCHOOL

## GRADUATE STUDENTS

|  |                           |                  |
|--|---------------------------|------------------|
| Arthur Bronson Adams, PH.B. }<br>Yale University 1885        | <i>New Haven, Conn.</i>   | 26 Academy st.   |
| Arthur Chambers Alexander, PH.B. }<br>Yale University 1889   | <i>Honolulu, H. I.</i>    | 145 College st.  |
| George Sherwin Clarke Badger, B.A. }<br>Yale University 1892 | <i>Boston, Mass.</i>      | 60 Grove st.     |
| Charles Joseph Bartlett, B.A. }<br>Yale University 1892      | <i>New Haven, Conn.</i>   | 120 Dwight st.   |
| Frederic Elijah Beach, PH.B. }<br>Yale University 1893       | <i>New Haven, Conn.</i>   | 44 Lyon st.      |
| Arthur Eli Booth, PH.B. }<br>Yale University 1891            | <i>Peace Dale, R. I.</i>  | 23 Lynwood st.   |
| Arthur Stone Brackett, B.A. }<br>Yale University 1892        | <i>Hartford, Conn.</i>    | 120 Dwight st.   |
| Sterling Haight Bunnell, PH.B. }<br>Yale University 1891     | <i>Stratford, Conn.</i>   | 297 York st.     |
| George Flavius Campbell, PH.B. }<br>Yale University 1892     | <i>New Haven, Conn.</i>   | 49 Dixwell av.   |
| Wesley Roswell Coe, PH.B. }<br>Yale University 1892          | <i>Middlefield, Conn.</i> | 131 Howe st.     |
| Egbert Wheeler Cornwall, PH.B. }<br>Yale University 1892     | <i>Patterson N. Y.</i>    | 397 Crown st.    |
| Arthur Louis Day, B.A. }<br>Yale University 1892             | <i>Westborough, Mass.</i> | 25 High st.      |
| Philip Dowell, B.A. }<br>Augustana College 1885              | <i>Galva, Ill.</i>        | 149 St. John st. |
| Alexander William Evans, M.D. }<br>Yale University 1892      | <i>New Haven, Conn.</i>   | 12 High st.      |
| Edwin Horace Forbes, PH.B. }<br>Yale University 1874.        | <i>Torrington, Conn.</i>  | Torrington       |
| Matthew Griswold, Jr., PH.B. }<br>Yale University 1888       | <i>Erie, Pa.</i>          | A.               |
| Josiah Harmar, PH.B. }<br>Yale University 1892               | <i>Philadelphia, Pa.</i>  | 391 Temple st.   |
| James Hall Mason Knox, Jr., B.A. }<br>Yale University 1892   | <i>New Haven, Conn.</i>   | 82 Wall st.      |
| Ralph Henry Kunstadter, }<br>Budapest Oberrealschule 1890    | <i>New York City</i>      | 281 Crown st.    |
| Daniel Alden Loring, Jr., PH.B. }<br>Yale University 1891    | <i>New York City</i>      | 227 Crown st.    |

|  |   |                          |                 |
|--|---|--------------------------|-----------------|
| Boynton Wells McFarland, C.E.<br>Yale University 1891  | { | <i>New Haven, Conn.</i>  | 405 Temple st.  |
| Richard Fisher Manning, PH.B.<br>Yale University 1892  |   |                          |                 |
| William Dwight Marsh, B.A.<br>Amherst College 1888   | { | <i>Amherst, Mass.</i>    | 373 Crown st.   |
| Lafayette Benedict Mendel, B.A.<br>Yale University 1891  |   |                          |                 |
| Edwin Morrison, PH.B.<br>Yale University 1888  | { | <i>Delhi, N. Y.</i>      | 22 Trumbull st. |
| John P. Munson, B.S.<br>Univ. of Wisconsin 1887  |   |                          |                 |
| Arthur Chapin Pease, PH.B.<br>Yale University 1891   | { | <i>Cincinnati, O.</i>    | A.              |
| Miles Albion Pond, PH.B.<br>Yale University 1892   |   |                          |                 |
| Frank Russell Rich, PH.B.<br>Yale University 1890  | { | <i>Shabbona, Ill.</i>    | 7 Fair st.      |
| Milton Holley Robbins, PH.B.<br>Yale University 1891   |   |                          |                 |
| John David Shattuck, PH.B.<br>Yale University 1891   | { | <i>Ellington, Conn.</i>  | 60 Lyon st.     |
| George Pratt Starkweather, PH.B.<br>Yale University 1891   |   |                          |                 |
| Percy Talbot Walden, PH.B.<br>Yale University 1892   | { | <i>Torrington, Conn.</i> | 57 Grove st.    |
| William Morris Weller, B.A.<br>Western Maryland College 1889                                     |   |                          |                 |
| Henry Lord Wheeler, PH.B.<br>Yale University 1890  | { | <i>New Haven, Conn.</i>  | 2 Audubon st.   |
| Charles Mallory Williams, B.A.<br>Brooklyn Polytechnic Inst. 1890,<br>PH.B. Yale University 1892 |   |                          |                 |
| Clarence Cicero Wilson, B.A.<br>Yale University 1892   | { | <i>Lakeville, Conn.</i>  | A.              |
|  |   |                          |                 |
|  | { | <i>Norwich, N. Y.</i>    | 280½ Elm st.    |
|  |   |                          |                 |
|  | { | <i>New Haven, Conn.</i>  | N. H. Hospital  |
|  |   |                          |                 |
|  | { | <i>Brooklyn, N. Y.</i>   | 123 Park st.    |
|  |   |                          |                 |
|  | { | <i>Cumberland, Md.</i>   | 94 W. D.        |
|  |   |                          |                 |
|  | { | <i>Chicago, Ill.</i>     | 126 Wall st.    |
|  |   |                          |                 |
|  | { | <i>Brooklyn, N. Y.</i>   | 2 Hillhouse av. |
|  |   |                          |                 |
|  | { | <i>Avon, Conn.</i>       | 117 Elm st.     |
|  |   |                          |                 |

GRADUATE STUDENTS, 37

## SENIOR CLASS

|                          |                         |                  |
|--------------------------|-------------------------|------------------|
| Roger Cook Adams         | <i>New Haven, Conn.</i> | 459 Prospect st. |
| Mortimer Harmount Alling | <i>New Haven, Conn.</i> | 238 Orchard st.  |
| William Marvin Armstrong | <i>Brooklyn, N. Y.</i>  | 137 College st.  |
| James Howard Bailey      | <i>Brooklyn, N. Y.</i>  | 137 College st.  |
| Anson Baldwin            | <i>Yonkers, N. Y.</i>   | 42 Elm st.       |
| Joseph Henry Bamberg     | <i>New Haven, Conn.</i> | 75 Nicoll st.    |

|                            |                                      |                 |
|----------------------------|--------------------------------------|-----------------|
| Donn Barber                | <i>New York City</i>                 | 86 Wall st.     |
| Morris Hugus Beall         | <i>Omaha, Nebr.</i>                  | 263 Crown st.   |
| James Beach Beckett        | <i>Western Springs, Ill.</i>         | 55 Prospect st. |
| Charles Pool Belden        | <i>Chicago, Ill.</i>                 | 154 Grove st.   |
| William Bart Berger        | <i>Denver, Col.</i>                  | 88 Wall st.     |
| Walter Spencer Billard     | <i>Meriden, Conn.</i>                | 285 York st.    |
| Oliver Chandler Billings   | <i>New York City</i>                 | 131 Grove st.   |
| Orland Rossini Blair       | <i>New Britain, Conn.</i>            | 295 York st.    |
| Laurence Thornton Bliss    | <i>New York City</i>                 | 43 College st.  |
| Harry Lattimer Bloodgood   | <i>New York City</i>                 | 43 College st.  |
| Joseph Judson Brooks, Jr.  | <i>Pittsburgh, Pa.</i>               | 86 Wall st.     |
| Walter Frank Brown         | <i>New London, Conn.</i>             | 214 Crown st.   |
| Nelson Reardsley Burr      | <i>Auburn, N. Y.</i>                 | 43 College st.  |
| Alexander James Campbell   | <i>Sausalito, Cal.</i>               | 127 College st. |
| James Edward F. Campbell   | <i>New York City</i>                 | 159 Elm st.     |
| Sheldon Cary               | <i>Cleveland, O.</i>                 | 43 College st.  |
| George Clifford Clark      | <i>Terryville, Conn.</i>             | 22 Lynbull st.  |
| Herman Daggett Clark, Jr.  | <i>New Haven, Conn.</i>              | 13 Trumbull st. |
| John Williams Coe          | <i>Meriden, Conn.</i>                | 285 York st.    |
| William Garrard Comly      | <i>Governor's Island, N. Y. City</i> | 86 Wall st.     |
| Henry Failing Conner       | <i>Portland, Oregon</i>              | 152 Grove st.   |
| Lester Wiggins Day         | <i>Baltimore, Md.</i>                | 248 York st.    |
| Hughes Dayton              | <i>Southport, Conn.</i>              | 206 Crown st.   |
| James Laird deVou          | <i>Wilmington, Del.</i>              | 133 College st. |
| Leroy Church Dupee         | <i>Chicago, Ill.</i>                 | 299 York st.    |
| Ernest Bradford Ellsworth  | <i>Hartford, Conn.</i>               | 57 Grove st.    |
| Albert DeWolf Erskine      | <i>Chicago, Ill.</i>                 | 200 Grove st.   |
| Jason Evans                | <i>Morristown, N. J.</i>             | 131 Grove st.   |
| Mark Ewing                 | <i>St. Louis, Mo.</i>                | 131 Grove st.   |
| Joseph Brooks Fair         | <i>Chicago, Ill.</i>                 | 1010 Chapel st. |
| Howard Judson Fish         | <i>Pasadena, Cal.</i>                | 19 Wall st.     |
| Marc Milton Fishel         | <i>New York City</i>                 | 248 York st.    |
| Frederick Luther Ford      | <i>North Branford, Conn.</i>         | 266 York st.    |
| George Congdon Fouse       | <i>Washington, D. C.</i>             | 411 Temple st.  |
| Edward Levi Fox            | <i>New Haven, Conn.</i>              | 1245 Chapel st. |
| Arthur Graham Freeland     | <i>New York City</i>                 | 42 Elm st.      |
| Richard Garlick            | <i>Youngstown, O.</i>                | 88 Wall st.     |
| Albert Dewitt Gibbs        | <i>Chicago, Ill.</i>                 | 31 Trumbull st. |
| William Anthony Granville  | <i>New Haven, Conn.</i>              | 96 Greene st.   |
| Gaston Gunter              | <i>Montgomery, Ala.</i>              | 295 York st.    |
| Robert Ezra Hall           | <i>Hartford, Conn.</i>               | 295 York st.    |
| Ogden Haggerty Hammond     | <i>St. Paul, Minn.</i>               | 43 College st.  |
| Samuel Mowbry Hammond, Jr. | <i>Torrington, Conn.</i>             | 53 Prospect st. |
| Thomas King Hanna, Jr.     | <i>Kansas City, Mo.</i>              | 150 Grove st.   |



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|------------------------------|------------------------------|-----------------|
| Howard Joseph Haslehurst     | <i>Brooklyn, N. Y.</i>       | 43 College st.  |
| Arthur Stephen Hawley        | <i>New Haven, Conn.</i>      | 20 Gill st.     |
| Charles Borland Hill         | <i>Montgomery, N. Y.</i>     | 248 York st.    |
| Louis Warren Hill            | <i>St. Paul, Minn.</i>       | 1076 Chapel st. |
| Frank Elijah Hine            | <i>Milford, Conn.</i>        | 53 Prospect st. |
| Charles Wilcox Hitchcock     | <i>Cleveland, O.</i>         | 42 Elm st.      |
| Sidney Stone Holt            | <i>New Haven, Conn.</i>      | 71 Dwight st.   |
| William Thomas Hildrup Howe  | <i>Killingworth, Conn.</i>   | 53 Prospect st. |
| Hampton Howell               | <i>Brooklyn, N. Y.</i>       | 88 Wall st.     |
| Phelps Buttolph Hoyt         | <i>Chicago, Ill.</i>         | 131 Grove st.   |
| William Churchill Hungerford | <i>New Britain, Conn.</i>    | 248 York st.    |
| George Albert Hutchinson     | <i>Chicago, Ill.</i>         | 248 York st.    |
| Charles Anthony Ingersoll    | <i>New Haven, Conn.</i>      | 24 Elm st.      |
| Huson Taylor Jackson         | <i>Allegheny City, Pa.</i>   | 88 Wall st.     |
| Harry Churchill January      | <i>St. Louis, Mo.</i>        | 131 Grove st.   |
| William Rankin Johnston      | <i>Shippensburg, Pa.</i>     | 53 Prospect st. |
| Charles Oscar Kalman         | <i>St. Paul, Minn.</i>       | 59 Wall st.     |
| John Hume Kedzie, Jr.        | <i>Evanston, Ill.</i>        | 131 Grove st.   |
| William Lansing, Jr.         | <i>Albany, N. Y.</i>         | 88 Wall st.     |
| Elmer Arthur Lawbaugh        | <i>Opechee, Mich.</i>        | 15 E. D.        |
| Burton Leonard Lawton        | <i>Meriden, Conn.</i>        | 22 Lynwood st.  |
| Louis Cicero Lawton          | <i>Brooklyn, Conn.</i>       | 55 Prospect st. |
| Harry Blakeman Lewis         | <i>New Haven, Conn.</i>      | 438 George st.  |
| Thomas Henry Lewis           | <i>Evanston, Ill.</i>        | 131 Grove st.   |
| Frank Allen Little           | <i>Meriden, Conn.</i>        | 266 York st.    |
| Samuel Whiter McCaulley      | <i>Wilmington, Del.</i>      | 397 Temple st.  |
| Vance Criswell McCormick     | <i>Harrisburg, Pa.</i>       | 43 College st.  |
| Clifford Whiting McGee       | <i>Plainfield, N. J.</i>     | 43 College st.  |
| William McKell               | <i>Chillicothe, O.</i>       | 248 York st.    |
| Charles Eugene McLane        | <i>Baltimore, Md.</i>        | 43 College st.  |
| Fred Bogart McMullen         | <i>Pictou, Ontario, Can.</i> | 419 Temple st.  |
| Herbert Yarwood McMullen     | <i>Pictou, Ontario, Can.</i> | 419 Temple st.  |
| Leonard Mandel               | <i>Chicago, Ill.</i>         | 124 Wall st.    |
| Harold Chauncey Matthews     | <i>New York City</i>         | 206 Crown st.   |
| Edward Anthony Mitchell      | <i>New Haven, Conn.</i>      | 79 Trumbull st. |
| Lysander Royster Moore, Jr.  | <i>Kansas City, Mo.</i>      | 42 Elm st.      |
| Henry Hotchkiss Murray       | <i>Viola, Del.</i>           | 54 Garden st.   |
| Oliver Peter Nicola          | <i>Cleveland, O.</i>         | 43 College st.  |
| Herbert Leroy Potter         | <i>North Guilford, Conn.</i> | 266 York st.    |
| Joseph Hyde Pratt            | <i>West Hartford, Conn.</i>  | 57 Grove st.    |
| Harry Parks Ritchie          | <i>St. Paul, Minn.</i>       | 332 Temple st.  |
| Allan Appleton Robbins       | <i>New York City</i>         | 43 College st.  |
| Edward Olin Smith            | <i>Springfield, Mass.</i>    | 150 Grove st.   |
| Frederick Clarence Spencer   | <i>Old Saybrook, Conn.</i>   | 411 Temple st.  |

|                            |                     |                  |
|----------------------------|---------------------|------------------|
| Alfred Hull Stevens        | Clinton, Conn.      | 117 Park st.     |
| William Petheric Stevens   | Detroit, Mich.      | 150 Grove st.    |
| Raymond French Stoddard    | Milford, Conn.      | 293 York st.     |
| Bradley Stoughton          | New Haven, Conn.    | 339 Prospect st. |
| Frederick Enos Stow        | Plantsville, Conn.  | 36 Elm st.       |
| Richard Pearson Strong     | Atlanta, Ga.        | 411 Temple st.   |
| Richard Schoonmaker Suydam | Allegheny City, Pa. | 42 Elm st.       |
| William Buffum Thompson    | Pasadena, Cal.      | 19 Wall st.      |
| Albert Leverett VanHuyck   | Lee, Mass.          | 36 Elm st.       |
| McLane VanIngen            | New York City       | 131 Grove st.    |
| John Henry Vought          | Buffalo, N. Y.      | 131 Grove st.    |
| Robert William Whitehead   | Boston, Mass.       | 299 York st.     |
| Howard Dudley Wiggins      | Indianapolis, Ind.  | 133 College st.  |
| Ira Edward Wight           | New Orleans, La.    | 131 Grove st.    |
| Wallace Charles Winter     | St. Paul, Minn.     | 131 Grove st.    |
| Ernest Strong Witbeck      | Detroit, Mich.      | 389 Temple st.   |
| SENIORS, 110               |                     |                  |

### JUNIOR CLASS

|                            |                          |                 |
|----------------------------|--------------------------|-----------------|
| Ralph Albree               | Allegheny, Pa.           | 150 Grove st.   |
| Frank Willson Aldrich      | McLean, Ill.             | 62 W. D.        |
| William Bradford Allen     | New Haven, Conn.         | 284 Orange st.  |
| Richard Clough Anderson    | Cincinnati, O.           | 46 College st.  |
| John Lorillard Arden       | Garrison, N. Y.          | 103 Wall st.    |
| George Armstrong           | Ponce, Porto Rico, W. I. | 206 Crown st.   |
| Orville Elias Babcock      | Chicago, Ill.            | 103 Wall st.    |
| William Hendry Barker      | Hartford, Conn.          | 206 Crown st.   |
| Harry Ives Bartholomew     | Bristol, Conn.           | 128 High st.    |
| Willard Bayliss            | Cleveland, O.            | 44 College st.  |
| Charles Sweetser Benson    | Portland, Me.            | 146 College st. |
| George Alexander Berry     | Norwalk, Conn.           | West Haven      |
| Louis Mark Bishop          | New Haven, Conn.         | 71 Whalley av.  |
| Gershom Burr Bradley, Jr.  | Saugatuck, Conn.         | 200 Grove st.   |
| Clifford Brewster Brainard | Bristol, Conn.           | 311 George st.  |
| Edward Lacy Brayton        | Oakland, Cal.            | 99 Wall st.     |
| Henry Brewer               | New Haven, Conn.         | 418 Orange st.  |
| George Richard Brewster    | Newburgh, N. Y.          | 248 York st.    |
| Morgan Prout Brooks        | New Haven, Conn.         | 11 College st.  |
| Charles Barto Brown        | New Haven, Conn.         | 79 William st.  |
| Frederick Zerban Brown     | Philadelphia, Pa.        | 62 W. D.        |
| Edward Erle Brownell       | San Francisco, Cal.      | 389 Temple st.  |
| Harold Winthrop Buck       | New York City            | 42 Elm st.      |

|                                 |                            |                  |
|---------------------------------|----------------------------|------------------|
| Alexander Byers, Jr.            | <i>Pittsburgh, Pa.</i>     | 131 Grove st.    |
| Andrew Owen Campbell            | <i>Hamilton, O.</i>        | 248 York st.     |
| Paul Worthington Carhart        | <i>Detroit, Mich.</i>      | 59 Prospect st.  |
| Sheldon Catlin                  | <i>Bridgeport, Conn.</i>   | 143 College st.  |
| Thomas Frederick Chadwick       | <i>Newburgh, N. Y.</i>     | 248 York st.     |
| Jerome Stuart Chaffee           | <i>Amenia, N. Y.</i>       | 122 Howe st.     |
| Charles McLure Clark            | <i>St. Louis, Mo.</i>      | 103 Wall st.     |
| William Irving Clock            | <i>Dayton, O.</i>          | 57 Prospect st.  |
| George Eaton Collins            | <i>Pittsburgh, Pa.</i>     | 231 York st.     |
| Samuel Gilbert Colt             | <i>Pittsfield, Mass.</i>   | 131 Grove st.    |
| Frederick Clifford Cooke        | <i>Wallingford, Conn.</i>  | 192 Grove st.    |
| Edward Vermilye Cox             | <i>Philadelphia, Pa.</i>   | 226 Crown st.    |
| Charles Eliab Coy               | <i>Milford, Conn.</i>      | 206 Crown st.    |
| Charles Howard Daly             | <i>New York City</i>       | 311 York st.     |
| James Milan Dickson, Jr.        | <i>Mansfield, O.</i>       | 146 College st.  |
| Harry Perry Disbecker           | <i>New York City</i>       | 36 Elm st.       |
| Arthur Malcolm Drummond         | <i>West Haven, Conn.</i>   | West Haven       |
| Frederick Wead Drury, Jr.       | <i>St. Louis, Mo.</i>      | 42 Elm st.       |
| Ralph Elliott Dusinger          | <i>Bristol, Conn.</i>      | 59 Prospect st.  |
| Charles M. Edwards              | <i>Plattsburgh, N. Y.</i>  | 219 York st.     |
| John Leffingwell Eliot          | <i>Clinton, Conn.</i>      | 397 Temple st.   |
| Heman Ely, Jr.                  | <i>Elyria, O.</i>          | 248 York st.     |
| Frederick Philip Farnsworth     | <i>New Haven, Conn.</i>    | 55 Trumbull st.  |
| Harry Warner Farnum             | <i>Chicago, Ill.</i>       | 88 Wall st.      |
| Smith Farley Ferguson           | <i>Troy, N. Y.</i>         | 42 Elm st.       |
| Ernest Rudolph Folger           | <i>Oakland, Cal.</i>       | 131 Grove st.    |
| James Henry Follis              | <i>San Francisco, Cal.</i> | 250 York st.     |
| Robert True Fowler              | <i>New Haven, Conn.</i>    | 1193 Chapel st.  |
| John Thomas Gillespie           | <i>New York City</i>       | 66 w. d.         |
| William Henry Glenny, Jr.       | <i>Buffalo, N. Y.</i>      | 61 w. d.         |
| John Milton Goetchius, Jr.      | <i>New York City</i>       | 43 College st.   |
| James Barnett Goodwillie        | <i>Cleveland, O.</i>       | 88 Wall st.      |
| Archibald Bauford Gwathmey, Jr. | <i>New York City</i>       | 88 Wall st.      |
| Edward Clifton Hall             | <i>Wallingford, Conn.</i>  | 192 Grove st.    |
| Paul David Hamilton             | <i>Waterbury, Conn.</i>    | 297 York st.     |
| Edward Herbert Hart             | <i>New Britain, Conn.</i>  | 150 College st.  |
| Harrie Emile Hart               | <i>New Britain, Conn.</i>  | 154 Grove st.    |
| Maxwell Stansbury Hart          | <i>New Britain, Conn.</i>  | 150 College st.  |
| Herman Ferdinand Heilemann      | <i>New Haven, Conn.</i>    | 92 Asylum st.    |
| Isaac Morris Heller             | <i>New Haven, Conn.</i>    | 95 St. John st.  |
| Harold Edmunds Hewlett          | <i>Babylon, N. Y.</i>      | 57 Prospect st.  |
| Herbert Crary Hill              | <i>Mystic, Conn.</i>       | 210 Prospect st. |
| Nathaniel Parker Hill           | <i>Montgomery, N. Y.</i>   | 409 Temple st.   |
| Henry Hobart Holly, Jr.         | <i>New York City</i>       | 311 York st.     |

|                               |                                |                 |
|-------------------------------|--------------------------------|-----------------|
| Howard Parker Hotchkiss       | <i>New Haven, Conn.</i>        | 1226 Chapel st. |
| Charles Wilson Hoyt           | <i>New Haven, Conn.</i>        | 309 Howard av.  |
| George Moulthrop Hubbell      | <i>Ansonia, Conn.</i>          | Ansonia         |
| Everett Bradley Hurlburt      | <i>Roxbury, Conn.</i>          | 20 Gill st.     |
| Frederick Thomas James        | <i>New York City</i>           | 137 College st. |
| Clifford Stebbins Jennings    | <i>Southport, Conn.</i>        | 55 Trumbull st. |
| Alexander Johnson             | <i>Bridgeport, Conn.</i>       | 143 College st. |
| Charles Stoddard Johnson      | <i>New Haven, Conn.</i>        | 23 Trumbull st. |
| Frederick Allen Johnson       | <i>Norwich, Conn.</i>          | 313 York st.    |
| Howard Spafard Johnson        | <i>Brooklyn, N. Y.</i>         | 103 Wall st.    |
| Harry Lee Joyce               | <i>S. Egremont, Mass.</i>      | 206 Crown st.   |
| Arthur Tryon Kemp             | <i>New York City</i>           | 90 Wall st.     |
| Irvine Keyser                 | <i>Baltimore, Md.</i>          | 42 Elm st.      |
| Frederick Wilkinson Kilbourne | <i>Meriden, Conn.</i>          | Meriden         |
| Charles Rufus Knapp           | <i>Auburn, N. Y.</i>           | 131 Grove st.   |
| Arthur James Ladd             | <i>Uncasville, Conn.</i>       | 289 York st.    |
| Frederick Martin Landé        | <i>New York City</i>           | 248 York st.    |
| William John Langzettel       | <i>New Haven, Conn.</i>        | 725 Whitney av. |
| Burton James Lee              | <i>New Haven, Conn.</i>        | 102 Dewitt st.  |
| Frank Lee                     | <i>Port of Spain, Trinidad</i> | 126 Wall st.    |
| Frederic Henry Lee            | <i>Eric, Pa.</i>               | 126 High st.    |
| Joseph Lentilhon, Jr.         | <i>New York City</i>           | 111 High st.    |
| Tracy Samuel Lewis            | <i>Naugatuck, Conn.</i>        | 206 Crown st.   |
| Mitchell Campbell Lilley, Jr. | <i>Columbus, O.</i>            | 263 Crown st.   |
| James Whiting Maples          | <i>Norwalk, Conn.</i>          | 120 High st.    |
| Charles Edward Meigs          | <i>Waterbury, Conn.</i>        | 206 Crown st.   |
| Eugene Lawrence Messler       | <i>Pittsburgh, Pa.</i>         | 131 Grove st.   |
| Louis Rochat Metcalfe         | <i>Stamford, Conn.</i>         | 131 Grove st.   |
| James Hoyt Miller             | <i>Stamford, Conn.</i>         | 206 Crown st.   |
| William DeWitt Mitchell       | <i>Winona, Minn.</i>           | 130 Wall st.    |
| Howard Allen Mix              | <i>West Haven, Conn.</i>       | West Haven      |
| Jerome Alfred Clinton Morse   | <i>Brooklyn, N. Y.</i>         | 133 College st. |
| Frederick Searles Munger      | <i>Herkimer, N. Y.</i>         | 133 College st. |
| Arthur Samuel Nathan          | <i>Chicago, Ill.</i>           | 124 Wall st.    |
| Francis Irving Nettleton      | <i>Shelton, Conn.</i>          | Shelton         |
| Thomas Keaton Norris          | <i>New York City</i>           | 29 Trumbull st. |
| Fred. Elmer Northrop          | <i>Southport, Conn.</i>        | 55 Trumbull st. |
| Frederick Erskine Olmsted     | <i>Hartford, Conn.</i>         | 107 Wall st.    |
| Thomas Bucklin Owen           | <i>Providence, R. I.</i>       | 114 High st.    |
| Henry Francis Parmelee        | <i>New Haven, Conn.</i>        | 598 Chapel st.  |
| Silas Beach Patterson         | <i>Torrington, Conn.</i>       | 122 Howe st.    |
| Ermon Miland Peck             | <i>Woodbridge, Conn.</i>       | 10 Ashmun st.   |
| Irving Hobart Peck            | <i>Birmingham, Conn.</i>       | 44 College st.  |
| John Crist Peck               | <i>Newburgh, N. Y.</i>         | 106 York sq.    |

|                                |                            |                 |
|--------------------------------|----------------------------|-----------------|
| George Hoyt Penfield, Jr.      | <i>Catskill, N. Y.</i>     | 53 Prospect st. |
| Alois John Joseph Pfeiffer     | <i>Ansonia, Conn.</i>      | Ansonia         |
| George Washington Pike, Jr.    | <i>S. Killingly, Conn.</i> | 57 Prospect st. |
| William Wallace Pike           | <i>Chicago, Ill.</i>       | 59 W. D.        |
| Charles Biddle Pinney          | <i>Stafford, Conn.</i>     | 313 York st.    |
| William Spencer Pope, Jr.      | <i>St. Louis, Mo.</i>      | 131 Grove st.   |
| Joseph Hersey Pratt            | <i>Middleboro, Mass.</i>   | 131 Howe st.    |
| Vincent Leonard Price          | <i>Chicago, Ill.</i>       | 389 Temple st.  |
| William Procter                | <i>Williamstown, Mass.</i> | 156 Grove st.   |
| Abram Nave Ranney              | <i>St. Joseph, Mo.</i>     | 90 Wall st.     |
| Sextus Louis Reed              | <i>Gallatin, Tenn.</i>     | 130 Wall st.    |
| Chauncey Brewster Rice         | <i>New Haven, Conn.</i>    | Suburban st.    |
| Charles Leonard Frost Robinson | <i>New York City</i>       | 42 Elm st.      |
| Alexander Parker Rogers        | <i>New York City</i>       | 43 College st.  |
| George Frederick Root          | <i>Buffalo, N. Y.</i>      | 133 College st. |
| Frederick Rustin               | <i>Omaha, Nebr.</i>        | 109 Wall st.    |
| Samuel Morehead Russell        | <i>Bedford, Pa.</i>        | 107 Temple st.  |
| John Sargent                   | <i>New Haven, Conn.</i>    | 51 Elm st.      |
| Wilfred Willis Savage          | <i>Hartford, Conn.</i>     | 107 Wall st.    |
| George St. John Sheffield      | <i>Attleboro, Mass.</i>    | 226 Crown st.   |
| Frederick Nichols Sinks        | <i>Columbus, O.</i>        | 248 York st.    |
| James Dudley Skinner           | <i>Denver, Col.</i>        | 99 Wall st.     |
| Edward Page Smith              | <i>Chicago, Ill.</i>       | 36 Elm st.      |
| Chester Stowe Spencer          | <i>Guilford, Conn.</i>     | 159 York st.    |
| Harry Merriman Steele          | <i>Waterbury, Conn.</i>    | 63 W. D.        |
| Philip Tracy Stillman          | <i>Elizabeth, N. J.</i>    | 109 Wall st.    |
| Robert Curtis French Stoddard  | <i>Milford, Conn.</i>      | 293 York st.    |
| Edwin Howard Thomes            | <i>Rowayton, Conn.</i>     | Rowayton        |
| Victor Corse Thorne            | <i>New York City</i>       | 114 High st.    |
| Walter Henry Tilton            | <i>New Haven, Conn.</i>    | 235 Dixwell av. |
| Frederick Eugene Toquet        | <i>Westport, Conn.</i>     | 200 Grove st.   |
| Louis Downer Tracy             | <i>Fair Haven, Conn.</i>   | 2 Audubon st.   |
| Charles Rogers Treat           | <i>Orange, Conn.</i>       | 127 Orange st.  |
| Elisha Grant Trowbridge        | <i>New Haven, Conn.</i>    | 685 Orange st.  |
| Edward Lewis Uhl               | <i>New Haven, Conn.</i>    | 27 Bradley st.  |
| Fred Wood Varker               | <i>New York City</i>       | 27 Wall st.     |
| James Ashman Veech             | <i>New Haven, Conn.</i>    | 23 Eld st.      |
| Sanford Hosea Wadhams          | <i>New Haven, Conn.</i>    | 101 Lake pl.    |
| Joseph Patten Wales            | <i>Wilmington, Del.</i>    | 405 Temple st.  |
| James Walker, Jr.              | <i>West Haven, Conn.</i>   | 127 Orange st.  |
| Francis Castleman Waller       | <i>Chicago, Ill.</i>       | 425 Temple st.  |
| Francis Downs Wanning          | <i>Huntington, Conn.</i>   | 44 College st.  |
| Percy deForest Warner          | <i>Salisbury, Conn.</i>    | 138 College st. |
| Benjamin Glyde Wells           | <i>Allegheny, Pa.</i>      | 43 College st.  |

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|------------------------------|--------------------------|-----------------|
| Lynde Phelps Wheeler         | <i>Bridgeport, Conn.</i> | 539 Orange st.  |
| Dudley Phelps Wilkinson, Jr. | <i>Chicago, Ill.</i>     | 133 College st. |
| Samuel Porter Williams       | <i>Hartford, Conn.</i>   | 104 Wall st.    |
| Louis Brainard Wilson        | <i>Hartford, Conn.</i>   | 206 Crown st.   |
| Edward Taylor Wright         | <i>Hancock, Mich.</i>    | 206 Crown st.   |
| Willis Morris Wright         | <i>Fair Haven, Conn.</i> | 87 Church st.   |
| Lawrence Yates               | <i>Milwaukee, Wisc.</i>  | 263 Crown st.   |
|                              |                          | JUNIORS, 162    |

## FRESHMAN CLASS

|                             |                           |                 |
|-----------------------------|---------------------------|-----------------|
| Carlton Nisbet Aborn        | <i>Yonkers, N. Y.</i>     | 141 College st. |
| Thatcher Magoun Adams       | <i>Scarsdale, N. Y.</i>   | 250 Crown st.   |
| Stewart Cortlandt Alger     | <i>New York City</i>      | 142 York st.    |
| Grosvenor Noyes Allen       | <i>Kenwood, N. Y.</i>     | 59 Grove st.    |
| Willis Howard Alling        | <i>New Haven, Conn.</i>   | 310 Orange st.  |
| Robert Anderson             | <i>Cincinnati, O.</i>     | 389 Temple st.  |
| George Humphrey Armstrong   | <i>Minneapolis, Minn.</i> | 124 Wall st.    |
| Richard Armstrong           | <i>Hampton, Va.</i>       | 54 Wall st.     |
| John Shippen Atkins         | <i>Pottsville, Pa.</i>    | 132 Wall st.    |
| Richard Henry Baker         | <i>Hartford, Conn.</i>    | 68 William st.  |
| Bayard Barnes               | <i>New Haven, Conn.</i>   | 1442 Chapel st. |
| Nelson Ludington Barnes     | <i>Chicago, Ill.</i>      | 109 Wall st.    |
| William Samuel Barnes       | <i>New Haven, Conn.</i>   | 482 Howard av.  |
| Albert Raymond Barton       | <i>Jamestown, N. Y.</i>   | 130 Wall st.    |
| Rensselaer Wardwell Bartram | <i>Newark, N. J.</i>      | 337 Orange st.  |
| Thomas Heaton Beers         | <i>West Haven, Conn.</i>  | West Haven      |
| William Cooke Beers         | <i>New Haven, Conn.</i>   | 583 Orange st.  |
| John Eastman Belding        | <i>Springfield, Mass.</i> | 120 High st.    |
| Paul Beck Belin             | <i>Scranton, Pa.</i>      | 137 Wall st.    |
| Henry vanderVeer Bergen     | <i>Bay Ridge, N. Y.</i>   | 114 High st.    |
| Walter Birnie               | <i>Springfield, Mass.</i> | 132 Wall st.    |
| William Ross Black          | <i>Erie, Pa.</i>          | 126 Wall st.    |
| John Armine Bookwalter      | <i>Springfield, O.</i>    | 120 High st.    |
| Sydney Cecil Borg           | <i>New York City</i>      | 1076 Chapel st. |
| Henry Judah Brandon         | <i>Memphis, Tenn.</i>     | 395 Temple st.  |
| William Bingham Brayton     | <i>Cleveland, O.</i>      | 425 Temple st.  |
| Roscoe Egbert Bronson       | <i>Ansonia, Conn.</i>     | Ansonia         |
| Frank William Brown         | <i>New Haven, Conn.</i>   | 245 Orchard st. |
| Edward Lawrence Brownell    | <i>Sandusky, O.</i>       | 425 Temple st.  |
| Robert Carmichael Burchard  | <i>Uncasville, Conn.</i>  | 289 York st.    |
| Ernest Hyde Cady            | <i>Hartford, Conn.</i>    | 391 Temple st.  |
| Alexander Cahn              | <i>New Haven, Conn.</i>   | 18 Warren st.   |

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|------------------------------|-----------------------------|-----------------|
| William Goshorn Caldwell     | <i>Wheeling, W. Va.</i>     | 161 York st.    |
| Clarence Wellington Campbell | <i>New York City</i>        | 146 College st. |
| Payson Canda                 | <i>New York City</i>        | 409 Temple st.  |
| Luther M—— Case              | <i>Barkhamsted, Conn.</i>   | 86 Elliott st.  |
| Sherwood Alfred Cheney       | <i>Manchester, Conn.</i>    | 159 Elm st.     |
| Hendon Chubb                 | <i>East Orange, N. J.</i>   | 363 Elm st.     |
| George Clinton Clarke        | <i>Chicago, Ill.</i>        | 137 Wall st.    |
| Frank Benedict Cleland       | <i>New York City</i>        | 126 Wall st.    |
| Harry Trumbull Clifton       | <i>Washington, D. C.</i>    | 233 York st.    |
| Henry Peter Coburn           | <i>Indianapolis, Ind.</i>   | 395 Temple st.  |
| Arthur DeWitt Cochrane       | <i>New York City</i>        | 250 York st.    |
| George Harvey Coe            | <i>Hartford, Conn.</i>      | 155 Elm st.     |
| Herbert Conyngham            | <i>Wilkes-Barré, Pa.</i>    | 116 High st.    |
| Clarence Edwin Coolidge      | <i>East Hartford, Conn.</i> | E. Hartford     |
| Harvey Denison Cowee         | <i>Troy, N. Y.</i>          | 192 York st.    |
| William Benton Cowin         | <i>Omaha, Nebr.</i>         | 395 Temple st.  |
| Richard Teller Crane, Jr.    | <i>Chicago, Ill.</i>        | 393 Temple st.  |
| Carl Atwater Curtiss         | <i>Woodbury, Conn.</i>      | 76 Howe st.     |
| Frank Delano Cushing         | <i>Bath, Me.</i>            | 76 Howe st.     |
| James DeWolf Cutting         | <i>New York City</i>        | 1076 Chapel st. |
| Alfred Warner Dater          | <i>Brooklyn, N. Y.</i>      | 7 Library st.   |
| John Staige Davis            | <i>San Antonio, Tex.</i>    | 231 York st.    |
| Harry Vallett Day            | <i>New York City</i>        | 159 Elm st.     |
| Laurence Nelson DeGolyer     | <i>Evanston, Ill.</i>       | 109 High st.    |
| William King Duckworth       | <i>Cincinnati, O.</i>       | 86 Wall st.     |
| Francis Ireneé duPont        | <i>Wilmington, Del.</i>     | 127 College st. |
| William Burnet Easton        | <i>Summit, N. J.</i>        | 22 Trumbull st. |
| Leonard Henry Eicholtz, Jr.  | <i>Denver, Col.</i>         | 138 College st. |
| John Magee Ellsworth         | <i>Penn Yan, N. Y.</i>      | 46 College st.  |
| Horatio Nelson Emmons        | <i>St. Louis, Mo.</i>       | 391 Temple st.  |
| Auguste Berthold Ewing, Jr.  | <i>St. Louis, Mo.</i>       | 124 Wall st.    |
| Nathaniel William Ewing      | <i>St. Louis, Mo.</i>       | 124 Wall st.    |
| Ernest Mozart Farmer         | <i>Cleveland, O.</i>        | 393 Temple st.  |
| Charles Henry Farnam, Jr.    | <i>New York City</i>        | 135 College st. |
| John Arthur Farwell, Jr.     | <i>Chicago, Ill.</i>        | 393 Temple st.  |
| George Ingham Feeter         | <i>Little Falls, N. Y.</i>  | 91 Lake pl.     |
| Edward Galligan Fennelly     | <i>Birmingham, Conn.</i>    | 54 Wall st.     |
| William Smith Ferguson       | <i>Pittsburgh, Pa.</i>      | 199 York st.    |
| Harry Alexander Fields       | <i>New York City</i>        | 114 High st.    |
| Richard Holden Follis, Jr.   | <i>San Francisco, Cal.</i>  | 350 York st.    |
| Harry Ward Foote             | <i>New Haven, Conn.</i>     | Suburban st.    |
| Harry Noble Foster           | <i>New Haven, Conn.</i>     | 220 Orange st.  |
| George Snaphel Frank         | <i>Brooklyn, N. Y.</i>      | 231 York st.    |
| John Jay Fredericks          | <i>Syracuse, N. Y.</i>      | 159 York st.    |

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|------------------------------|-------------------------------|------------------|
| Isaac Wheeler Geer           | <i>Central Village, Conn.</i> | 2 Audubon st.    |
| Andrew James Gilmour         | <i>Fullton, N. Y.</i>         | 347 York st.     |
| Arthur Goodall               | <i>Oakland, Cal.</i>          | 99 Wall st.      |
| John Campbell Greenway       | <i>Hot Springs, Ark.</i>      | 54 Wall st.      |
| Edward Merriam Griffith      | <i>New York City</i>          | 393 Temple st.   |
| Theodore Wright Griggs       | <i>Tacoma, Wash.</i>          | 59 Wall st.      |
| Whistman Gunther             | <i>Chicago, Ill.</i>          | 137 Wall st.     |
| George Arthur Hadsell        | <i>Plainville, Conn.</i>      | 206 Crown st.    |
| Allan Everett Hall           | <i>Brookville, Pa.</i>        | 10 Ashmun st.    |
| James Spencer Hall           | <i>Ansonia, Conn.</i>         | Ansonia          |
| James Willet Hall            | <i>New York City</i>          | 126 Wall st.     |
| Robert William Hall          | <i>New Haven, Conn.</i>       | 88 Trumbull st.  |
| Sherman Rogers Hall          | <i>Buffalo, N. Y.</i>         | 61 W. D.         |
| Willis Mullings Hall         | <i>Waterbury, Conn.</i>       | 84 Wall st.      |
| Robert Austin Hamlin         | <i>Chicago, Ill.</i>          | 393 Temple st.   |
| Louis Fredrick Hart          | <i>Cleveland, O.</i>          | 40 Elm st.       |
| Robert Moore Harter          | <i>Mansfield, O.</i>          | 389 Temple st.   |
| Leon Sturges Hawley          | <i>Bridgeport, Conn.</i>      | 82 Broadway      |
| William Orville Hickok       | <i>Harrisburg, Pa.</i>        | 411 Temple st.   |
| David Arthur Hill            | <i>Chicago, Ill.</i>          | 130 Wall st.     |
| Henry Steadman Hitchcock     | <i>Woodbury, Conn.</i>        | 76 Howe st.      |
| Harry Clifford Holcomb       | <i>New Haven, Conn.</i>       | 200 Oak pl.      |
| Walter Armour Holden         | <i>Bridgeport, Conn.</i>      | 1173 Chapel st.  |
| Earle Cooke Hopkins          | <i>Danielsonville, Conn.</i>  | 124 W. D.        |
| Louis Davis Hopkins          | <i>Catskill, N. Y.</i>        | 55 Prospect st.  |
| George Merriam Howard        | <i>Montclair, N. J.</i>       | 409 Temple st.   |
| Slocum Howland               | <i>Catskill, N. Y.</i>        | 103 Wall st.     |
| Frederick Maxfield Hoyt      | <i>Stamford, Conn.</i>        | 130 Wall st.     |
| Augustus Zerega Huntington   | <i>Plainfield, N. J.</i>      | 136 College st.  |
| Charles Henry Hutchinson     | <i>New York City</i>          | 124 Wall st.     |
| Samuel Michael Israeli       | <i>Hartford, Conn.</i>        | 109 St. John st. |
| Irvine Sinclair Jackson      | <i>Chicago, Ill.</i>          | 104 Wall st.     |
| Frederick Israel Jansen      | <i>Fonda, N. Y.</i>           | 25 Lynwood st.   |
| Walter Barry Jennings        | <i>South Norwalk, Conn.</i>   | 26 Lynwood st.   |
| Joseph Almeron Johnson       | <i>Rochester, N. Y.</i>       | 128 High st.     |
| Lee Arthur Johnson           | <i>Cleveland, O.</i>          | 250 York st.     |
| Rankin Johnson               | <i>Chicago, Ill.</i>          | 53 E. D.         |
| Frank Winthrop Jordan        | <i>New York City</i>          | 99 Howe st.      |
| Norman Clarke King           | <i>Cleveland, O.</i>          | 40 Elm st.       |
| George Lauder                | <i>South Norwalk, Conn.</i>   | 107 York st.     |
| George McCully Laughlin, Jr. | <i>Pittsburgh, Pa.</i>        | 395 Temple st.   |
| James Dawson Layng, Jr.      | <i>New York City</i>          | 133 College st.  |
| Harry Spang Leech            | <i>New York City</i>          | 168 York st.     |
| Norman Leeds                 | <i>Stamford, Conn.</i>        | 130 Wall st.     |



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|-----------------------------|---------------------------|------------------|
| Ernest Abraham Limburger    | <i>New York City</i>      | 233 York st.     |
| Carl Robins Lindenberg      | <i>Columbus, O.</i>       | 114 High st.     |
| William Walker Little       | <i>New Haven, Conn.</i>   | 74 Pearl st.     |
| William Marshall Lund       | <i>Bridgeport, Conn.</i>  | 407 Temple st.   |
| Charles Woolsey Lyon        | <i>Hartford, Conn.</i>    | 91 Lake pl.      |
| James Alexander McCrea      | <i>Pittsburgh, Pa.</i>    | 152 Grove st.    |
| John Henry McCullagh, Jr.   | <i>New York City</i>      | 135 College st.  |
| William McEnerney           | <i>Derby, Conn.</i>       | 54 Wall st.      |
| Henry Pierre McQuaid        | <i>New Haven, Conn.</i>   | 181 Orchard st.  |
| Benjamin Franklin Mansfield | <i>New Haven, Conn.</i>   | 119 Greene st.   |
| Egbert Marsh                | <i>Bridgeport, Conn.</i>  | 120 High st.     |
| Frank Thompson Marsh        | <i>Hartford, Conn.</i>    | 18 Prince st.    |
| George Bragg Massey, Jr.    | <i>Watertown, N. Y.</i>   | 205 Crown st.    |
| Henry Warner Merwin         | <i>New Haven, Conn.</i>   | 28 College st.   |
| Howard Farr Metcalf         | <i>Holyoke, Mass.</i>     | 59 Wall st.      |
| Walter Louis Mitchell       | <i>New Haven, Conn.</i>   | 127 College st.  |
| George Webber Mixer         | <i>New Haven, Conn.</i>   | 144 Edwards st.  |
| George Norris Morgan        | <i>Pittsburgh, Pa.</i>    | 65 Grove st.     |
| Ira Morris                  | <i>Chicago, Ill.</i>      | 128 High st.     |
| Charles Augustine Morrogh   | <i>New York City</i>      | 131 High st.     |
| Frederick Edwin Newton      | <i>Buckingham, Conn.</i>  | 38 Clark st.     |
| Robert Allen Niggeman       | <i>St. Louis, Mo.</i>     | 67 Howe st.      |
| John Richard North          | <i>New Haven, Conn.</i>   | 120 College st.  |
| Francis Henry Oldershaw     | <i>New Britain, Conn.</i> | 29 Sylvan av.    |
| Charles Hotchkiss Osborn    | <i>New Haven, Conn.</i>   | 96 Ellsworth av. |
| Paul Orange Owsley          | <i>Chicago, Ill.</i>      | 397 Temple st.   |
| Walter Warner Palmer        | <i>Utica, N. Y.</i>       | 99 Wall st.      |
| Frank Judson Parker         | <i>Branford, Conn.</i>    | 266 York st.     |
| William Usher Parsons       | <i>New York City</i>      | 226 Crown st.    |
| Clarence Bardwell Peck      | <i>Plainfield, N. J.</i>  | 409 Temple st.   |
| John Smith Phelps           | <i>Springfield, Mo.</i>   | 65 York sq.      |
| Charles Russell Pratt       | <i>New Haven, Conn.</i>   | 127 Whitney av.  |
| William Bull Pringle        | <i>Oakland, Cal.</i>      | 127 College st.  |
| Archie Belknap Quarrier     | <i>New York City</i>      | 99 Wall st.      |
| Joseph Ridge Quinby, Jr.    | <i>New York City</i>      | 126 Wall st.     |
| Richard Foster Rand         | <i>Meriden, Conn.</i>     | Meriden          |
| Daniel Leasure Raymond      | <i>Minneapolis, Minn.</i> | 137 Wall st.     |
| Herbert Calhoun Reed        | <i>Stamford, Conn.</i>    | 34 Wall st.      |
| Harald Baxter Rees          | <i>Stamford, Conn.</i>    | 126 Wall st.     |
| Lewis Condict Richards      | <i>Unionville, Conn.</i>  | 486 Elm st.      |
| Henry Holdship Robinson     | <i>Pittsburgh, Pa.</i>    | 199 York st.     |
| Henry Hollister Robinson    | <i>Hartford, Conn.</i>    | 391 Temple st.   |
| Charles Benedict Rodman     | <i>Waterbury, Conn.</i>   | 165 York st.     |
| Joseph Wickham Roe          | <i>Brooklyn, N. Y.</i>    | 407 Temple st.   |

|                              |                         |                  |
|------------------------------|-------------------------|------------------|
| Stephen Bogert Roe           | Highland Falls, N. Y.   | 99 Howe st.      |
| Walter Sabin Root            | Cleveland, O.           | 132 Wall st.     |
| George Patten Savidge        | Spring Lake, Mich.      | 395 Temple st.   |
| Louis Saxon                  | New Haven, Conn.        | 37 Silver st.    |
| Ernest George Schurig        | New Haven, Conn.        | 105 Hamilton st. |
| George Harvey Seward         | West Haven, Conn.       | 105 Wooster st.  |
| George W. Shaw               | Toledo, O.              | 141 College st.  |
| Frederick Deming Sherman     | Brooklyn, N. Y.         | 64 w. D.         |
| Lloyd Waddell Smith          | Parsippany, N. J.       | 54 Wall st.      |
| Theodore Edward Smith        | Milford, Conn.          | 113 Olive st.    |
| George Harry Southard, Jr.   | Brooklyn, N. Y.         | 389 Temple st.   |
| Robert Law Spalding          | Chicago, Ill.           | 68 w. D.         |
| Robert Marshall Spencer      | South Manchester, Conn. | 155 Elm st.      |
| Benjamin Brewster Stebbins   | Cazenovia, N. Y.        | 141 College st.  |
| Charles Sing Stephenson      | Brooklyn, N. Y.         | 121 w. D.        |
| Frank Bryan Stephenson       | Brooklyn, N. Y.         | 68 w. D.         |
| Guy Ernest Stevens           | Scranton, Pa.           | 137 Wall st.     |
| Frank Raymond Stoller        | Kansas City, Mo.        | 257 Church st.   |
| James Terry                  | Hartford, Conn.         | 133 College st.  |
| Reuel Harvey Thayer, Jr.     | Buffalo, N. Y.          | 99 Wall st.      |
| Augustus Porter Thompson     | Honesdale, Pa.          | 107 Wall st.     |
| George Edwin Thompson, Jr.   | New Haven, Conn.        | 1173 Chapel st.  |
| Percival Thompson            | Chicago, Ill.           | 395 Temple st.   |
| Francis Harrison Todd        | New Haven, Conn.        | 62 Whalley av.   |
| James Rockwell Torbert       | Dubuque, Iowa           | 99 Wall st.      |
| Theophilus Titus Vandergrift | Jamestown, N. Y.        | 130 Wall st.     |
| Edgar Albert VanderVeer      | Albany, N. Y.           | 25 Lynwood st.   |
| George Washington VanSlyke   | Albany, N. Y.           | 293 York st.     |
| William Hoag VanSlyke        | Albany, N. Y.           | 293 York st.     |
| Frederick Herman Verhoeff    | Louisville, Ky.         | 40 Trumbull st.  |
| Oscar Harry Vieths           | St. Louis, Mo.          | 389 Temple st.   |
| Harrison Grow Wagner         | New Haven, Conn.        | 40 Pearl st.     |
| Harry Selden Waite           | Columbus, O.            | 36 Lynwood st.   |
| Charles Clearman Walbridge   | Brooklyn, N. Y.         | 126 Wall st.     |
| Myron Perry Warren           | New York City           | 133 College st.  |
| Cleveland Elmer Watrous      | Chester, Conn.          | 132 College st.  |
| Halsey Albert Weaver         | Woodstock, Conn.        | 186 Rosette st.  |
| Harold Curtis Webster        | Cleveland, O.           | 83 Grove st.     |
| Harry Gideon Wells           | New Haven, Conn.        | 40 Trumbull st.  |
| David Urquhart Wilcox        | New Haven, Conn.        | 46 York sq.      |
| William Hodges Wilcox        | Waterbury, Conn.        | 165 York st.     |
| George William Lane Woodruff | New York City           | 114 College st.  |
| Edward John Woolsey, Jr.     | Astoria, N. Y.          | 99 Wall st.      |

## SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE

|                          |                             |                 |
|--------------------------|-----------------------------|-----------------|
| Joseph Milton Boies      | <i>Scranton, Pa.</i>        | 65 Grove st.    |
| Edward Lacey Brayton     | <i>Oakland, Cal.</i>        | 99 Wall st.     |
| Edward Manning Brown     | <i>Springfield, Mass.</i>   | 348 Orange st.  |
| Loomis Burrell           | <i>Little Falls, N. Y.</i>  | 64 Lake pl.     |
| Charles Edmund Coxie     | <i>New York City</i>        | 43 College st.  |
| Arthur Hammel Krom       | <i>Plainfield, N. J.</i>    | 373 Crown st.   |
| Gilbert Totten McMaster  | <i>New Haven, Conn.</i>     | 6 High st.      |
| Frank Nicholson Schwartz | <i>Pittsburgh, Pa.</i>      | 199 York st.    |
| Edwin Howard Thomes      | <i>Rowayton, Conn.</i>      | Rowayton        |
| George Curtis Treadwell  | <i>Albany, N. Y.</i>        | 90 Wall st.     |
| Gilbert Van Ingen        | <i>Poughkeepsie, N. Y.</i>  | 31 Lake pl.     |
| Ira Cartright Wetherill  | <i>South Bethlehem, Pa.</i> | 335 Orange st.  |
| Myer Wolodarsky          | <i>New Haven, Conn.</i>     | 133 Rosette st. |

SPECIAL STUDENTS, 13

## SUMMARY

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|                  |   |   |   |   |   |     |
|------------------|---|---|---|---|---|-----|
| GRADUATES        | . | . | . | . | . | 37  |
| SENIORS          | . | . | . | . | . | 110 |
| JUNIORS          | . | . | . | . | . | 162 |
| FRESHMEN         | . | . | . | . | . | 207 |
| SPECIAL STUDENTS | . | . | . | . | . | 13  |

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## SCHOOL OF THE FINE ARTS

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|                       |                             |
|-----------------------|-----------------------------|
| Harry Lee Baker       | <i>Hartford, Conn.</i>      |
| George H. Berry       | <i>Shelton, Conn.</i>       |
| Robert H. Bonner      | <i>New Haven, Conn.</i>     |
| Grace Bronson         | <i>New Haven, Conn.</i>     |
| William M. Burgher    | <i>Bridgeport, Conn.</i>    |
| Frank Carew           | <i>New Haven, Conn.</i>     |
| Geraldine W. Carmalt  | <i>New Haven, Conn.</i>     |
| Gertrude DeVine       | <i>New Haven, Conn.</i>     |
| Mira E. Dowd          | <i>East River, Conn.</i>    |
| Mary W. Evans         | <i>New Haven, Conn.</i>     |
| Edith A. Fisher       | <i>New Haven, Conn.</i>     |
| Susan S. Fowler       | <i>New Haven, Conn.</i>     |
| Benjamin I. Gilbert   | <i>Clayville, N. Y.</i>     |
| Nellie B. Holcomb     | <i>New Haven, Conn.</i>     |
| Irving E. Hurlbut     | <i>New Haven, Conn.</i>     |
| Mildred C. Jordan     | <i>New Haven, Conn.</i>     |
| George H. Langzettell | <i>New Haven, Conn.</i>     |
| Eleanor D. Munger     | <i>New Haven, Conn.</i>     |
| Mary A. North         | <i>New Haven, Conn.</i>     |
| Etta B. Richards      | <i>New Haven, Conn.</i>     |
| Abbie Robb            | <i>Portland, Oregon</i>     |
| Alexander P. Rogers   | <i>New York City</i>        |
| Annie M. Rust         | <i>Meriden, Conn.</i>       |
| William B. Smith      | <i>New Haven, Conn.</i>     |
| Charles H. Spencer    | <i>Meriden, Conn.</i>       |
| S. Kate Spencer       | <i>Westerville, O.</i>      |
| Agnes H. Stirling     | <i>Cleveland, O.</i>        |
| Mary Thompson         | <i>New Haven, Conn.</i>     |
| Florence Trowbridge   | <i>New Haven, Conn.</i>     |
| Susan Y. Wendel       | <i>Murfreesboro', Tenn.</i> |
| Rebecca J. White      | <i>Oakland, Cal.</i>        |

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|   |     |
|---|-----|
| Art Students, . . . . .                                   | 31  |
| Special Undergraduate Students in Drawing, . . . . .      | 207 |
| Total Number of Students receiving Instruction, . . . . . | 238 |

In addition to the above there will be a class formed for Undergraduate Students in the Academical Department for the Second Term.

## MUSICAL DEPARTMENT

|                                  |  |
|----------------------------------|--|
| John Beadle, B.A. }              | <i>New Haven, Conn.</i> 554 Chapel st. |
| Yale University 1886 }           |  |
| Egbert Wheeler Cornwall, PH.B. } | <i>Patterson, N. Y.</i> 397 Crown st.  |
| Yale University 1892 }           |  |
| Johannes Heinrich Cuntz, M.E. }  | <i>Hoboken, N. J.</i> 121 Elm st.      |
| Stevens Institute 1887 }         |  |
| Bertha Ellen Lovewell, B.L. }    | <i>Topeka, Kansas</i> 70 Whalley av.   |
| Washburn College 1889 }          |  |
| Virginia Brisac Moore            | <i>Stratford, Conn.</i> Stratford      |
| C. Edward Moulthrop              | <i>West Haven, Conn.</i> West Haven    |
| Edward Walker Pease, B.A. }      | <i>Tolland, Conn.</i> 120 W. D.        |
| Yale University 1892 }           |  |

In addition to the above, 23 students from the undergraduate Academical and Scientific Departments are receiving regular instruction in Music.

The classification of the students is as follows :

|                             |    |
|-----------------------------|----|
| IN HARMONY, . . . . .       | 13 |
| IN COUNTERPOINT, . . . . .  | 10 |
| IN MUSICAL FORMS, . . . . . | 6  |
| IN ORCHESTRATION, . . . . . | 1  |
| TOTAL, . . . . .            | 30 |

# DEPARTMENT OF THEOLOGY

## (YALE DIVINITY SCHOOL)

### RESIDENT LICENTIATES

#### ATTENDING LECTURES

|                               |   |                            |                 |
|-------------------------------|---|----------------------------|-----------------|
| John Allender, B.D.           | } | <i>New Haven, Conn.</i>    | 23 Lynwood st.  |
| Chicago Theol. Seminary 1868  |   |                            |                 |
| Eli George Biddle             |   | <i>New Haven, Conn.</i>    | 139 Goffe st.   |
| Olin Raymond Howe, B.A.       | } | <i>Killingworth, Conn.</i> |                 |
| Syracuse University 1882      |   |                            | 53 Prospect st. |
| John David McGillivray,       | } | <i>Truro, N. S.</i>        | 18 Orange st.   |
| Presbyterian College, Halifax |   |                            |                 |
| Nathan James Plumb, B. A.     | } | <i>Shanghai, China</i>     | 86 Ward st.     |
| Ohio Wesleyan University 1870 |   |                            |                 |

RESIDENT LICENTIATES, 5

### GRADUATE CLASS

#### PURSUING FOURTH YEAR STUDIES

|  |                          |                |
|--|--------------------------|----------------|
| William Perry Arbuckle, B.A. }<br>Oberlin College 1885,<br>B.D. Boston University 1889             | <i>New Haven, Conn.</i>  | 75 Fourth st.  |
| William Watson Breckenridge, B.A. }<br>Wheaton College 1887,<br>B.S. and B.D. Oberlin College 1891 | <i>New Windsor, Ill.</i> | 118 W. D.      |
| Benjamin Franklin Cokely, B.A. }<br>Western College 1889   | <i>Vinton, Iowa</i>      | 84 W. D.       |
| Julius Wilbur Eggleston, B.A. }<br>Wesleyan University 1889,<br>B. D. Yale University 1892         | <i>Waterbury, Conn.</i>  | 17 E. D.       |
| John Lewis Evans, }<br>Bangor Theological Seminary   | <i>Northford, Conn.</i>  | 92 Eaton st.   |
| Kevork Harutune Kazanjian, }<br>Marash Theological Seminary 1880,<br>B.D. Yale University 1892     | <i>Aintab, Turkey</i>    | 87 W. D.       |
| David Lyman Kebbe, B.A. }<br>Amherst College 1888,<br>B.D. Yale University 1891                    | <i>Southwick, Mass.</i>  | 39 E. D.       |
| Duncan Salisbury Merwin, B.A. }<br>Yale University 1888,<br>B.D. Yale University 1892              | <i>New Haven, Conn.</i>  | 387 Temple st. |
| Harry Roberts Miles, B.A. }<br>Harvard University 1888,<br>B.D. Yale University 1892               | <i>Appleton, Wisc.</i>   | 111 W. D.      |
| Charles Eugene Ozanne, B.A. }<br>Adelbert College 1889,<br>B.D. Yale University 1892               | <i>Cleveland, O.</i>     | 109 W. D.      |

|  |                          |          |
|--|--------------------------|----------|
| George Samuel Richards, B.D. }<br>Yale University 1891                                       | <i>Mahanoy City, Pa.</i> | 18 E. D. |
| James Dixon Smiley, }<br>Bangor Theological Seminary   | <i>New Haven, Conn.</i>  | 74 W. D. |
| Edwin Alonzo Warfield, B.A. }<br>Western Maryland College 1882,<br>B.D. Yale University 1889 | <i>Urbana, Md.</i>       | 94 W. D. |

## GRADUATE STUDENTS, 13

## SENIOR CLASS

|  |  |           |
|--|--|-----------|
| Edward Perkins Ayer, }<br>Amherst College  | <i>Brookfield, Mass.</i>               | 22 E. D.  |
| Otis Webb Barker, B.A. }<br>Amherst College 1884                                     | <i>Brooklyn, N. Y.</i> 250 Orchard st. |           |
| Edgar Franklin Blanchard, B.A. }<br>Bates College 1888                               | <i>West Farmington, Me.</i>            | 88 W. D.  |
| Edward Shepard Bromer, B.A. }<br>Ursinus College 1890                                | <i>Schwenksville, Pa.</i>              | 23 E. D.  |
| Reginald Victor Bury   | <i>Dublin, Ireland</i>                 | 90 W. D.  |
| Bert Francis Case, B.A. }<br>Yale University 1890                                    | <i>Granby, Conn.</i>                   | 42 E. D.  |
| Samuel Davies, }<br>Carmarthen College 1890  | <i>Penboyt, South Wales</i>            | 103 W. D. |
| Albert Putnam Davis, B.A. }<br>Amherst College 1887                                  | <i>Hyde Park, Mass.</i>                | 24 E. D.  |
| Boothe Colwell Davis, B.A. }<br>Alfred University 1890                               | <i>Jane Lew, W. Va.</i>                | 20 E. D.  |
| Frank Butler Doane, B.A. }<br>Amherst College 1890                                   | <i>Hawley, Mass.</i>                   | 35 E. D.  |
| Evan Evans, B.A. }<br>Marietta College 1890  | <i>Cincinnati, O.</i>                  | 32 E. D.  |
| Charles Edward Ewing, B.A. }<br>Amherst College 1890                                 | <i>Danvers, Mass.</i>                  | 19 E. D.  |
| George Henry Ewing, B.A. }<br>Amherst College 1890                                   | <i>Danvers, Mass.</i>                  | 34 E. D.  |
| George Henry Flint, B.A. }<br>Williams College 1886,<br>M.A. Williams 1890           | <i>Lincoln, Mass.</i>                  | 25 E. D.  |
| Henry Martin Goddard, B.A. }<br>Middlebury College 1890                              | <i>Ludlow, Vt.</i>                     | 28 E. D.  |
| Lincoln Baker Goodrich, B.A. }<br>Amherst College 1888                               | <i>Plainfield, N. J.</i>               | 108 W. D. |
| Charles Edward Harris, B.A. }<br>Yale University 1885,<br>M.A. Columbia College 1886 | <i>Stafford Springs, Conn.</i>         | 30 E. D.  |
| Fosdick Beach Harrison, B.A. }<br>Amherst College 1890                               | <i>Bethlehem, Conn.</i>                | 13 E. D.  |

|   |   |                               |           |
|---|---|-------------------------------|-----------|
| Richard Henry Hughes,<br>Bala Calvinistic Methodist College                       | } | <i>Tan'rallt, N. Wales</i>    | 113 W. D. |
| Edward Everitt Keedy, B.A.<br>Lebanon Valley College 1889                         | } | <i>Rohrersville, Md.</i>      | 15 E. D.  |
| John Lincoln Keedy, B.A.<br>Lebanon Valley College 1889                           | } | <i>Rohrersville, Md.</i>      | 15 E. D.  |
| Harvey Merrill Lawson, PH.B.<br>Yale University 1890                              | } | <i>Union, Conn.</i>           | 44 E. D.  |
| James McLaughlin, B.A.<br>Brown University 1890                                   | } | <i>Danielsonville, Conn.</i>  | 29 E. D.  |
| James Brittain Miller,<br>Michigan State Normal School                            | } | <i>Ypsilanti, Mich.</i>       | 14 E. D.  |
| Warren Joseph Moulton, H.A.<br>Amherst College 1888                               | } | <i>Center Sandwich, N. H.</i> | 38 E. D.  |
| Robert Paton, B.A.<br>Oberlin College 1888  | } | <i>Almont, Mich.</i>          | 102 W. D. |
| Frank Curtiss Putnam, B.A.<br>Amherst College 1890                                | } | <i>Buffalo, N. Y.</i>         | 99 W. D.  |
| Harry Elmer Small, B.A.<br>Amherst College 1890                                   | } | <i>Machiasport, Me.</i>       | 27 E. D.  |
| Wilson Reed Stewart, B.A.<br>Wittenberg College 1890                              | } | <i>Bucyrus, O.</i>            | 21 E. D.  |
| Bernard Tyrrell, B.A.<br>Hilldale College 1888                                    | } | <i>McGaheysville, Va.</i>     | 33 E. D.  |
| Charles Prest Wells, B.A.<br>Victoria University 1890                             | } | <i>Sarnia, Ont., Canada</i>   | 10 E. D.  |
| Herbert Pekin Woodin, B.A.<br>Amherst College 1888                                | } | <i>Foochow, China</i>         | 37 E. D.  |
| William Michael Zumbro, B.A.<br>Western College 1888,<br>M.A. Univ. of Mich. 1889 | } | <i>Purdin, Mo.</i>            | 40 E. D.  |

SENIOR CLASS, 33

## MIDDLE CLASS

|  |   |                               |              |
|--|---|-------------------------------|--------------|
| Gurdon Franklin Bailey, B.A.<br>Yale University 1891           | } | <i>Groton, Conn.</i>          | 2 E. D.      |
| Raymond Cummings Brooks B.A.<br>Tabor College 1891             | } | <i>Tabor, Iowa</i>            | 26 E. D.     |
| Henry Cartledge,<br>Boston University                          | } | <i>New Haven, Conn.</i>       | 11 Foote st. |
| William Llawddog Evans,<br>Carmarthen College                  | } | <i>Alltevalis, Wales</i>      | 97 W. D.     |
| Orishatukeh Faduma,<br>University of London                    | } | <i>Waterloo, Sierra Leone</i> | 46 E. D.     |
| August Frederick Fehandt, B.A.<br>University of Wisconsin 1891 | } | <i>Madison, Wisc.</i>         | 89 W. D.     |



|  |                     |             |
|--|---------------------|-------------|
| George Mayo Gerrish, B.A. }<br>Tufts College 1891                    | Woburn, Mass.       | 83 W. D.    |
| Albert Louis Grein, PH.B. }<br>Oberlin College 1891                  | Buffalo, N. Y.      | 81 W. D.    |
| Jacob Lewis Hartsock, }<br>Johns Hopkins University                  | Hagerstown, Md.     | 73 W. D.    |
| Charles Stillman Haynes, B.A. }<br>Williams College 1891             | Fitchburg, Mass.    | 47 E. D.    |
| Samuel George Heckmann, B.A. }<br>University of Cincinnati 1891      | Cincinnati, O.      | 43 E. D.    |
| William Fleetwood Ireland, B.A. }<br>Oberlin College 1891            | Natal, S. Africa    | 112 W. D.   |
| Harry William Landfear, B.A. }<br>Amherst College 1890               | Glastonbury, Conn.  | 80 W. D.    |
| Henry Leigh Layman, B.A. }<br>Adrian College 1891                    | Fairmont, W. Va.    | 98 W. D.    |
| Edwin Jones Lewis, B.A. }<br>Marietta College 1891                   | Alliance, O.        | 26 E. D.    |
| Frederick Nye Lindsay, B.A. }<br>Yale University 1889                | Troy, N. Y.         | 49 E. D.    |
| Abraham Lincoln McClelland, B.A. }<br>Oberlin College 1889           | Brandon, Wisc.      | 96 W. D.    |
| Harry Chamberlain Meserve  | Lowell, Mass.       | 93 W. D.    |
| John Winslow Norris, B.A. }<br>University of Vermont 1891            | Albany, Vt.         | 117 W. D.   |
| Carroll Perry, B.A. }<br>Williams College 1890                       | Williamstown, Mass. | 114 W. D.   |
| Aurelian Post, B.A. }<br>Hamilton College 1891                       | Clinton, N. Y.      | 54 E. D.    |
| Henry Hugh Proctor, B.A. }<br>Fisk University 1891                   | Fayetteville, Tenn. | 46 E. D.    |
| Charles Edwin Reeves, }<br>Williams College                          | New London, Conn.   | 53 E. D.    |
| Anders Sandbo, B.A. }<br>St. Olaf College 1890                       | Hills, Minn.        | 104 W. D.   |
| Charles William Thomas Strasser, B.A. }<br>Muhlenberg College 1891   | Allentown, Pa.      | 77 Howe st. |
| Robert John Thomson, }<br>Johns Hopkins University                   | Baltimore, Md.      | 45 E. D.    |
| William Marsh Tinker, B.A. }<br>Thiel College 1887, M.A. Thiel Coll. | Sharon, Pa.         | 55 W. D.    |

MIDDLE CLASS, 27

## JUNIOR CLASS

|  |                   |         |
|--|-------------------|---------|
| William Thurston Brown, B.A. }<br>Yale University 1890 | Somerville, Conn. | 6 E. D. |
|--|-------------------|---------|

|   |  |                              |                   |
|---|--|------------------------------|-------------------|
| Samuel MacIntosh Cathcart               |  | <i>Northfield, Mass.</i>     | 751 Orange st.    |
| John Wesley Dickson, B.A. }             |  | <i>Columbus, O.</i>          | 41 Winchester av. |
| Otterbein University 1892 }             |  |                              |                   |
| Evor Evans, }                           |  | <i>Kingston, Pa.</i>         | 55 W. D.          |
| Colorado College }                      |  |                              |                   |
| Henry Thatcher Fowler, B.A. }           |  | <i>Poughkeepsie, N. Y.</i>   | Dwight Hall       |
| Yale University 1890 }                  |  |                              |                   |
| Everett Dwight Francis, B.A. }          |  | <i>West Hartford, Conn.</i>  | 119 W. D.         |
| Yale University 1892 }                  |  |                              |                   |
| Lathrop Campbell Grant                  |  | <i>Charleston, S. C.</i>     | 119 W. D.         |
| John Washington Hoffman, B.A. }         |  | <i>Noblestown, Pa.</i>       | 106 W. D.         |
| Washington and Jefferson College 1892 } |  |                              |                   |
| Burris Atkins Jenkins, B.A. }           |  | <i>Kansas City, Mo.</i>      | 78 W. D.          |
| Bethany College 1891 }                  |  |                              |                   |
| Charles William Jennings, B.A. }        |  | <i>Jetersville, Va.</i>      | 48 E. D.          |
| Hampden-Sidney College 1891 }           |  |                              |                   |
| John Owen Jones                         |  | <i>Dublin, Ireland</i>       | 92 W. D.          |
| Milton Royce Kerr, B.S. }               |  | <i>Mongaup Valley, N. Y.</i> | 57 W. D.          |
| Cornell University 1884 }               |  |                              |                   |
| Adam Ruth Lutz, M.A. }                  |  | <i>Strasburg, Pa.</i>        | 57 W. D.          |
| Franklin and Marshall College 1889 }    |  |                              |                   |
| Francis Miner Moody, B.A. }             |  | <i>New Haven, Conn.</i>      | 41 E. D.          |
| Yale University 1892 }                  |  |                              |                   |
| Edward Walker Pease, B.A. }             |  | <i>Tolland, Conn.</i>        | 120 W. D.         |
| Yale University 1892 }                  |  |                              |                   |
| John Wesley Rice, B.A. }                |  | <i>Rockland, Mass.</i>       | 105 W. D.         |
| Harvard University 1891 }               |  |                              |                   |
| Olaus Thorleivson Rikansrud, B.A. }     |  | <i>Elon, Iowa</i>            | 100 W. D.         |
| Luther College 1888 }                   |  |                              |                   |
| Wallace Eugene Rollins, B.A. }          |  | <i>Asheville, N. C.</i>      | 91 W. D.          |
| University of North Carolina 1892 }     |  |                              |                   |
| Edward Stevens Sanborn, B.A. }          |  | <i>Kingston, N. H.</i>       | 41 E. D.          |
| Yale University 1892 }                  |  |                              |                   |
| Thomas Melvaughn Singer, B.A. }         |  | <i>Lewiston, Me.</i>         | 79 W. D.          |
| Bates College 1890 }                    |  |                              |                   |
| John William Taylor, B.A. }             |  | <i>East Bethlehem, Pa.</i>   | 106 W. D.         |
| Washington and Jefferson College 1892 } |  |                              |                   |
| Charles Snow Thayer, B.A. }             |  | <i>Westfield, Mass.</i>      | 75 W. D.          |
| Amherst College 1886 }                  |  |                              |                   |
| Fred. Louis Ernest John Traeger, B.A. } |  | <i>Chicago, Ill.</i>         | 123 W. D.         |
| Calvin College 1892 }                   |  |                              |                   |
| Corydon Curtiss Tyler                   |  | <i>Brooklyn, N. Y.</i>       | 58 W. D.          |
| Hiram VanKirk, B.A. }                   |  | <i>Buffalo, N. Y.</i>        | 91 W. D.          |
| Hiram College 1892 }                    |  |                              |                   |
| Joseph Jones Vaughan, }                 |  | <i>Tredeggar, Wales</i>      | 92. W. D.         |
| Handsworth Theol. Inst., Eng. }         |  |                              |                   |
| Frank Alonzo Wilder, B.A. }             |  | <i>Monroe, Mich.</i>         | 82 W. D.          |
| Oberlin College 1892 }                  |  |                              |                   |

|                                 |   |                           |                  |
|---------------------------------|---|---------------------------|------------------|
| Clarence Russell Williams, B.A. | } | <i>Philadelphia, Pa.</i>  | 95 W. D.         |
| University of Pennsylvania 1892 |   |                           |                  |
| Harlan Nims Wood, B.A.          | } | <i>Bellevue, O.</i>       | 76 W. D.         |
| Amherst College 1892            |   |                           |                  |
| Parley Paul Womer,              | } | <i>Reynoldsville, Pa.</i> | 76 W. D.         |
| Ohio Wesleyan University        |   |                           |                  |
| Daniel Wilson Wright,           | } | <i>Worthington, O.</i>    | 6 University pl. |
| Ohio Wesleyan University        |   |                           |                  |

JUNIOR CLASS, 31

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### SUMMARY

|                       |   |   |   |   |   |            |
|-----------------------|---|---|---|---|---|------------|
| RESIDENT LICENTIATES, | . | . | . | . | . | 5          |
| GRADUATE CLASS,       | . | . | . | . | . | 13         |
| SENIOR CLASS,         | . | . | . | . | . | 33         |
| MIDDLE CLASS,         | . | . | . | . | . | 27         |
| JUNIOR CLASS,         | . | . | . | . | . | 31         |
| TOTAL,                | . | . | . | . | . | <u>109</u> |

# DEPARTMENT OF MEDICINE

## (YALE MEDICAL SCHOOL)

### GRADUATE STUDENTS

|  |   |
|--|---|
| Leonard Woolsey Bacon, Jr., M.D. }<br>Yale University 1892 | <i>New Haven, Conn.</i> 1 Grove st.     |
| Moses Jacob Husinsky, M.D. }<br>Yale University 1892       | <i>New Haven, Ct.</i> 145 Congress av.  |
| George Henry Jackson, M.D. }<br>Yale University 1892       | <i>New Haven, Conn.</i> 115 Day st.     |
| Edward Lyman Munson, M.D. }<br>Yale University 1892        | <i>Whitneyville, Ct.</i> N. H. Hospital |

GRADUATE STUDENTS, 4

### SENIOR CLASS

|   |  |
|---|--|
| Ambrose Kirk Brennan  | <i>New Haven, Conn.</i> 179 Franklin st. |
| Rollin Blackman Chatfield   | <i>Seymour, Conn.</i> 1361 Chapel st.    |
| Arthur Sanford Cheney, PH.B. }<br>Yale University 1889                        | <i>New Haven, Conn.</i> 45 Elm st.       |
| Frederick Stanley Cowles  | <i>Rome, N. Y.</i> 371 Crown st.         |
| Alejandro García-Aragón, B.A. and PH.B. }<br>College of San Luis Gonzaga 1888 | <i>Cartago, Costa Rica</i> 41 Howe st.   |
| Frederick Carl Goldstein  | <i>Ansonia, Conn.</i> Ansonia            |
| Edward Winchester Goodenough, B.A. }<br>Yale University 1887                  | <i>Winchester, Conn.</i> 17 S.           |
| Franklin Lyman Lawton, PH.B. }<br>Yale University 1890                        | <i>Meriden, Conn.</i> 22 Lynwood st.     |
| Isaac Napoleon Porter, B.A. }<br>Lincoln University 1890                      | <i>Summit Bridge, Del.</i> 115 Day st.   |
| Robert Ellsworth Peck, PH.B. }<br>Yale University 1890                        | <i>New Haven, Conn.</i> 486 Elm st.      |
| Leonard Cutler Sanford, B.A. }<br>Yale University 1890                        | <i>New Haven, Conn.</i> 216 Crown st.    |
| Martial Adolph Scharton   | <i>North Haven, Conn.</i> 7 Bradley pl.  |
| Morris Dore Slattery  | <i>New Haven, Conn.</i> 195 DeWitt st.   |
| Frederick Benoni Sweet  | <i>Lebanon, Conn.</i> 381 Crown st.      |

SENIOR CLASS, 14

## MIDDLE CLASS

|  |  |
|--|--|
| Ernest Herman Arnold                                   | <i>New Haven, Conn.</i> 167 West st.     |
| Jerome Samuel Bissell                                  | <i>West Morris, Ct.</i> 1367 Chapel st.  |
| Charles Porter Botsford                                | <i>East Berlin, Conn.</i> 44 Lyon st.    |
| Charles Ellsworth Bush                                 | <i>Niantic, Conn.</i> 404 Crown st.      |
| Charles Franklin Craig                                 | <i>Danbury, Conn.</i> 107 York st.       |
| Wilton Elias Dickerman, B.A. }<br>Amherst College 1890 | <i>Whitneyville, Conn.</i> Whitneyville  |
| Miles Remond Gordon                                    | <i>Chelsea, Mass.</i> 115 Day st.        |
| Edward Lyman Kingman                                   | <i>Bridgeport, Conn.</i> 1173 Chapel st. |
| Edward Brooks Marston                                  | <i>Bath, Me.</i> 297 York st.            |
| Edward Seymour Moulton, B.A. }<br>Oberlin College 1891 | <i>Oberlin, O.</i> 233 York st.          |
| Frederick Noyes Sperry                                 | <i>New Haven, Conn.</i> 76 Wooster st.   |
| William Francis Verdi                                  | <i>New Haven, Conn.</i> 167 Wallace st.  |
|  | MIDDLE CLASS, 12                         |

## JUNIOR CLASS

|   |  |
|---|--|
| Andrew Joseph Barker  | <i>New Britain, Conn.</i> New Britain    |
| William Francis Barry, B.A. }<br>St. Mary's College 1890      | <i>New Haven, Conn.</i> 249 Lombard st.  |
| Thomas Patrick Callahan                                       | <i>New London, Conn.</i> 314 Crown st.   |
| Charles Gardner Child   | <i>Montclair, N. J.</i> 371 Crown st.    |
| John William Coogan   | <i>New Haven, Conn.</i> Spring Side Home |
| Joseph Anthony Cooke  | <i>New Haven, Conn.</i> 70 Hill st.      |
| John Abraham Doroff   | <i>New Haven, Conn.</i> 889 Grand av.    |
| James Henry Joseph Flynn                                      | <i>New Haven, Conn.</i> 30 Day st.       |
| Charles Edward Geer   | <i>Meriden, Conn.</i> 24 College st.     |
| John Joseph Gilhuley  | <i>Bridgeport, Conn.</i> Bridgeport      |
| Simon Philip Goodhart, PH.B. }<br>Yale University 1892        | <i>New Haven, Conn.</i> 44 Elm st.       |
| Michael Joseph Grady  | <i>New Haven, Conn.</i> 192 Wallace st.  |
| Richard Sill Griswold, Jr.                                    | <i>Old Lyme, Conn.</i> 134 College st.   |
| Charles Bryan Hall  | <i>Denver, Col.</i> 1204 Chapel st.      |
| Walter Emory Hatfield   | <i>New Haven, Conn.</i> 406 Orchard st.  |
| Albert Lewis House  | <i>Milford, Conn.</i> Milford            |
| Alfred Stillé Ives  | <i>New Haven, Conn.</i> 347 Temple st.   |
| Maximilian Lawrence Loeb                                      | <i>New Haven, Conn.</i> 200 Franklin st. |
| John Lawrence Kelly, B.A. }<br>College of the Holy Cross 1892 | <i>New Britain, Conn.</i> New Britain    |
| Vertner Kenerson, B.A. }<br>Yale University 1891              | <i>New Haven, Conn.</i> 1018 Chapel st.  |
| Frank Spicer Miner  | <i>New Haven, Conn.</i> 28 Dwight st.    |

|                                 |  |
|---------------------------------|--|
| James Albert Moore, B.A. }      | <i>New Haven, Conn.</i> 120 Dwight st.         |
| Yale University 1892 }          |  |
| James Mann O'Brien              | <i>New Haven, Conn.</i> 420 Winthrop av.       |
| Fürchtgott Forst Richard Oertel | <i>New Haven, Conn.</i> 31 York sq.            |
| Adolph Jacob Osterman           | <i>New Haven, Conn.</i> 536 East st.           |
| Henry Pell Pierpont             | <i>New Haven, Conn.</i> 262 York st.           |
| Myron Potter Robinson           | <i>Glastonbury, Conn.</i> 347 York st.         |
| Harry Breed Rising              | <i>South Glastonbury, Conn.</i> 383 George st. |
| Walter Chadwick Sears           | <i>Portland, Conn.</i> 107 York st.            |
| Milton Christopher Seropyan     | <i>Constantinople, Turkey</i> 1204 Chapel st.  |
| Elmer Thomas Sharpe             | <i>Seymour, Conn.</i> Seymour                  |
| Michael Joseph Sheahan          | <i>New Haven, Conn.</i> 361 Blatchley av.      |
| William Joseph Sheehan, B.S. }  |  |
| Manhattan College 1892 }        | <i>West Haven, Conn.</i> West Haven            |
| Louis Mayer Smirnow             | <i>New Haven, Conn.</i> 284 Wooster st.        |
| Seymour Leopold Spier           | <i>New Haven, Conn.</i> 145 Bradley st.        |
| Hugh Cume Thompson              | <i>Buffalo, N. Y.</i> 305 George st.           |
| Harry White Underhill           | <i>Danbury, Conn.</i> 373 Crown st.            |
| Stiles Henry Whiting            | <i>Bridgeport, Conn.</i> Bridgeport            |
| Abram Case Williams, B.A. }     |  |
| Yale University 1892 }          | <i>East Hartford, Ct.</i> 120 Dwight st.       |
| Clayton Samuel Woodford         | <i>Plainville, Conn.</i> 24 Perkins st.        |
| Thomas Herbert Young            | <i>Hamilton, Can.</i> 1367 Chapel st.          |
| William Russell Young           | <i>Bridgeport, Conn.</i> 297 George st.        |
|                                 | JUNIOR CLASS, 42                               |

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### SPECIAL STUDENTS

|                         |                                       |
|-------------------------|---------------------------------------|
| Milton Ballin           | <i>New York City</i> 161 York st.     |
| Alfred Townsend Osgood  | <i>Rochester, N. Y.</i> 209 Crown st. |
| Herbert Leonard Simpson | <i>Trenton, N. J.</i> 12 Edgewood av. |
| Maurice Henry Walsh     | <i>Danbury, Conn.</i> 127 Clay st.    |

SPECIAL STUDENTS, 4

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### SUMMARY

|                    |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|----|
| GRADUATE STUDENTS, | . | . | . | . | . | 4  |
| SENIOR CLASS,      | . | . | . | . | . | 14 |
| MIDDLE CLASS,      | . | . | . | . | . | 12 |
| JUNIOR CLASS,      | . | . | . | . | . | 42 |
| SPECIAL STUDENTS,  | . | . | . | . | . | 4  |
| TOTAL,             | . | . | . | . | . | 76 |

# DEPARTMENT OF LAW

## (YALE LAW SCHOOL)

### GRADUATE STUDENTS

|   |   |                           |                   |
|---|---|---------------------------|-------------------|
| Harry Washington Asher, LL.B.             | } | <i>New Haven, Conn.</i>   | 27 Elm st.        |
| Yale University 1883, Attorney at Law     |   |                           |                   |
| Edward Grant Buckland, LL.B.              | } | <i>New Haven, Conn.</i>   | 419 Temple st.    |
| Yale University 1889, Attorney at Law     |   |                           |                   |
| Samuel Herbert Fisher, B.A.               | } | <i>New Haven, Conn.</i>   | 88 Trumbull st.   |
| Yale University 1889                      |   |                           |                   |
| Edwin Franklin Hall,                      | } | <i>Stratford, Conn.</i>   | Stratford         |
| Attorney at Law                           |   |                           |                   |
| William Angus Hamilton, LL.B.             | } | <i>New York City</i>      | 337 Orange st.    |
| Cornell University 1889                   |   |                           |                   |
| John Aaron Hooper, M.L.                   | } | <i>York, Pa.</i>          | 63 Prospect st.   |
| Yale University 1892, Attorney at Law     |   |                           |                   |
| Sukehide Kabayama, M.L.                   | } | <i>Tokyo, Japan</i>       | 1161 Chapel st.   |
| Yale University 1892                      |   |                           |                   |
| Waichiro Kuroku, LL.B.                    | } | <i>Saitama Kew, Japan</i> | 373 Crown st.     |
| W. Va. University 1892                    |   |                           |                   |
| Franklin Harrison Kelley, LL.B.           | } | <i>New Haven, Conn.</i>   | 46 Foster st.     |
| Yale University 1888, Attorney at Law     |   |                           |                   |
| Albert James Kenyon, LL.B.                | } | <i>Branford, Conn.</i>    | Branford          |
| Yale University 1891, Attorney at Law     |   |                           |                   |
| Sanford Bouck Martin, LL.B.               | } | <i>Gettysburg, Pa.</i>    | 1010 Chapel st.   |
| Yale University 1892                      |   |                           |                   |
| Robert Clark Morris, M.L.                 | } | <i>Bridgeport, Conn.</i>  | 331 Temple st.    |
| Yale University 1892, Attorney at Law     |   |                           |                   |
| Richard Frank Price, LL.B.                | } | <i>Clinton, Iowa</i>      | 126 Howe st.      |
| State Univ. of Iowa 1889, Attorney at Law |   |                           |                   |
| Eljen Kossuth Wilcox, LL.B.               | } | <i>Cleveland, O.</i>      | 115 Ellsworth av. |
| Yale University 1876, Attorney at Law     |   |                           |                   |
| Andrew Wilson, M.L.                       | } | <i>New Haven, Conn.</i>   | 8 University pl.  |
| Yale University 1892                      |   |                           |                   |

## SENIOR CLASS

|                                      |                           |                 |
|--------------------------------------|---------------------------|-----------------|
| William Doolittle Bailey, B.A. }     | <i>Grinnell, Iowa</i>     | 8 Trumbull st.  |
| Iowa College 1891 }                  |                           |                 |
| Roger Sherman Baldwin, B.A. }        | <i>New Haven, Conn.</i>   | 44 Wall st.     |
| Yale University 1890 }               |                           |                 |
| John Wallace Banks, B.A. }           | <i>Guilford, Conn.</i>    | 139 Orange st.  |
| Yale University 1889 }               |                           |                 |
| Charles Roderick Beers               | <i>New York City</i>      | 59 Grove st.    |
| Frank Sheridan Benninghoff, B.A. }   | <i>Clyde, N. Y.</i>       | 468 State st.   |
| Yale University 1891 }               |                           |                 |
| Julian Jedediah Bishop               | <i>Norwich, Conn.</i>     | 59 Prospect st. |
| James Kingsley Blake, B.A. }         | <i>New Haven, Conn.</i>   | 361 Temple st.  |
| Yale University 1891 }               |                           |                 |
| Dwight Eliot Bowers, B.A. }          | <i>New Haven, Conn.</i>   | 209 Crown st.   |
| Yale University 1887 }               |                           |                 |
| Elmer Ray Brady, }                   | <i>Pomeroy, Wash.</i>     | 257 Church st.  |
| Attorney at Law }                    |                           |                 |
| Charles Dudley Burns                 | <i>S. Norwalk, Conn.</i>  | S. Norwalk      |
| Lawrence Marshall Byers, M.A. }      | <i>Oskaloosa, Iowa</i>    | 94 Lake pl.     |
| Haverford College 1891 }             |                           |                 |
| Wilson Lee Camden, B.L. }            | <i>Fairmont, W. Va.</i>   | 562 Chapel st.  |
| W. Va. Univ. 1891, Attorney at Law } |                           |                 |
| Ernest Wells Campbell                | <i>Litchfield, Minn.</i>  | 67 Whalley av.  |
| James Abrial Caporale                | <i>New Haven, Conn.</i>   | 742 Grand av.   |
| Alfred Wellington Carter             | <i>Honolulu, H. I.</i>    | 383 George st.  |
| John Joseph Clerkin, B.A. }          | <i>New Haven, Conn.</i>   | 65 Olive st.    |
| College of the Holy Cross 1877 }     |                           |                 |
| Thomas Henry Cone                    | <i>Bridgeport, Conn.</i>  | Bridgeport      |
| James Tobias Coogan                  | <i>Windsor Locks, Ct.</i> | 1179 Chapel st. |
| Homer Stille Cummings, PH.B. }       | <i>New Haven, Ct.</i>     | 376 Whitney av. |
| Yale University 1891 }               |                           |                 |
| George Milton Curtis, Jr.            | <i>New York City</i>      | 59 Grove st.    |
| Cornelius Joseph Danaher             | <i>Meriden, Conn.</i>     | 250 Grove st.   |
| Samuel Allan Davis                   | <i>Danbury, Conn.</i>     | 2 Audubon st.   |
| Harry Goodyear Day, PH.B. }          | <i>Seymour, Conn.</i>     | 71 W. D.        |
| Yale University 1890 }               |                           |                 |
| James Dudley Dewell, Jr.             | <i>New Haven, Conn.</i>   | 400 Orange st.  |
| Dana Pitt Foster, B.A. }             | <i>Waterville, Me.</i>    | 65 York sq.     |
| Colby University 1891 }              |                           |                 |
| Daniel Fred Fowler                   | <i>New York City</i>      | 99 Howe st.     |
| Katsutaro Fukushima                  | <i>Shizuoka, Japan</i>    | 66 Whalley av.  |
| Robert Miles Gignoux                 | <i>Monroe, N. Y.</i>      | 85 W. D.        |
| Bernard Gilpin, Jr.                  | <i>Baltimore, Md.</i>     | 64 Whalley av.  |
| Arthur Collins Graves, B.A. }        | <i>New Haven, Conn.</i>   | 101 Grove st.   |
| Trinity College 1891 }               |                           |                 |
| Lee Gray                             | <i>Phoenix, Arizona</i>   | 383 George st.  |



|  |  |
|--|--|
| Frank David Haines   | <i>Middletown, Conn.</i> 2 Audubon st.     |
| Frank Edward Healy   | <i>Windsor Locks, Conn.</i> 43 Whalley av. |
| William Thurston Hincks, B.A. }<br>Yale University 1891                  | <i>Bridgeport, Conn.</i> Bridgeport        |
| John Hone, Jr., B.A. }<br>College of N. J. 1891                          | <i>Red Bank, N. J.</i> 121 Elm st.         |
| Jesse Wheeler Hubbard  | <i>Sioux City, Iowa</i> 14 Whalley av.     |
| George Henry Huddy, Jr.  | <i>Providence, R. I.</i> 65 York sq.       |
| Torrey Treherne Hull   | <i>Norwich, Conn.</i> Tremont House        |
| Frank William Igo  | <i>New Haven, Ct.</i> 153 Ashmun st.       |
| Milton Cleaveland Isbell, PH.B. }<br>Yale University 1891                | <i>Ansonia, Conn.</i> Ansonia              |
| Richard Everett Jeffery  | <i>San Diego, Cal.</i> 404 Crown st.       |
| Charles Poole Kellogg, B.A. }<br>Yale University 1890                    | <i>Waterbury, Conn.</i> 71 W. D.           |
| Ulysses Simpson Grant Kendall, B.S. }<br>National Normal University 1890 | <i>Pittsburgh, Pa.</i> 131 Howe st.        |
| Thomas Francis Lawlor  | <i>Waterbury, Conn.</i> 1179 Chapel st.    |
| Waddy Daniel Leeper, }<br>Attorney at Law.                               | <i>Chillicothe, Mo.</i> 518 Chapel st.     |
| Sidney Nelson Lockwood   | <i>Bridgeport, Conn.</i> Bridgeport        |
| James St. Clair McCall   | <i>York, Pa.</i> 57 Lake pl.               |
| Haines Allen Machesney   | <i>Allegheny, Pa.</i> 67 Whalley av.       |
| Malcolm MacLear, B.A. }<br>Yale University 1891                          | <i>Wilmington, Del.</i> 37 Beers st.       |
| David Thomas McNamara  | <i>New Haven, Ct.</i> 270 Hamilton st.     |
| William Brayton Mann   | <i>Providence, R. I.</i> 44 Elm st.        |
| Charles Herbert Mathews  | <i>New Haven, Conn.</i> 732 Orange st.     |
| Harry Nelson Moon, B.S. }<br>Mass. Agricultural College 1891             | <i>Memphis, Tenn.</i> 378 Crown st.        |
| Wallace Simon Moyle, B.A. }<br>Yale University 1891                      | <i>Sharon, Mass.</i> 121 Park st.          |
| John Hall Musgrave   | <i>Pittsburgh, Pa.</i> 107 Temple st.      |
| Leslie Wickham Newberry  | <i>S. Windsor, Conn.</i> 43 Whalley av.    |
| William Norton   | <i>Waukegan, Ill.</i> 20 Whalley av.       |
| John Thomas O'Keefe, }<br>Attorney at Law                                | <i>Leavenworth, Kansas</i> 257 Church st.  |
| Daniel Lyman Parsons   | <i>Johnstown, Pa.</i> 1320 Chapel st.      |
| David Whitman Parsons, B.A. }<br>Colby University 1891                   | <i>Oakland, Me.</i> 65 York sq.            |
| Willfred Montessoro Peck   | <i>Stratford, Conn.</i> Stratford          |
| Alfred Horace Phelps, B.A. }<br>Northwestern University 1891             | <i>Denver, Col.</i> 71 Lake pl.            |
| Bamford Albert Robb, }<br>Attorney at Law                                | <i>Portland, Oregon</i> 267 Orange st.     |
| Alexander George Morison Robertson                                       | <i>Honolulu, H. I.</i> 383 George st.      |

|  |   |
|--|---|
| Paul Russo   | <i>New Haven, Conn.</i> 70 Washington st. |
| Daniel Seales, Jr., B.A. }<br>Yale University 1891 }     | <i>Cleveland, O.</i> 379 Crown st.        |
| Redford Brian Tunstall Sharpe                            | <i>San Antonio, Tex.</i> 37 Beers st.     |
| Walter Campbell Shoup                                    | <i>Salmon City, Idaho</i> 65 York sq.     |
| Alfred Willoughby Smith                                  | <i>Middlebury, Vt.</i> 274 George st.     |
| George Howard Stanton, }<br>Attorney at Law }            | <i>Great Falls, Mont.</i> 2 Audubon st.   |
| Isadore Abraham Stein                                    | <i>New Haven, Conn.</i> 107 Hill st.      |
| John Adelbert Stewart                                    | <i>Bridgeport, Conn.</i> Bridgeport       |
| John Dewell Swain  | <i>Boston, Mass.</i> 532 Chapel st.       |
| John Quillin Tilson, B.A. }<br>Yale University 1891 }    | <i>Clear Branch, Tenn.</i> 1 TR.          |
| Rollin Usher Tyler, B.A. }<br>Yale University 1886 }     | <i>Tylerville, Conn.</i> 373 Crown st.    |
| George Stewart Walton, B.A. }<br>Yale University 1891 }  | <i>Salem, O.</i> 99 Howe st.              |
| James Parsons Woodruff, B.A. }<br>Amherst College 1891 } | <i>Litchfield, Conn.</i> 83 Grove st.     |
| Brent Kelley Yates                                       | <i>Hiawatha, Kansas</i> 20 Whalley av.    |
|  | SENIORS, 78                               |

## JUNIOR CLASS

|   |  |
|---|--|
| William Roderick Adams  | <i>Bloomfield, Conn.</i> 19 Park st.     |
| Frederick Lawton Averill                                      | <i>New Haven, Conn.</i> 23 Prince st.    |
| Alfred Carlton Baldwin  | <i>Beaver Falls, Pa.</i> Lynwood st.     |
| Andrew Jackson Balliet, B.A. }<br>Yale University 1892 }      | <i>Lighthouse, Pa.</i> 60 W. D.          |
| William Braider Barker  | <i>Westville, Conn.</i> Westville        |
| Jeremiah Robinson Beard                                       | <i>Brooklyn, N. Y.</i> 250 York st.      |
| Harry Chester Beidelman                                       | <i>Easton, Pa.</i> 514 Chapel st.        |
| Clark Smith Bishop  | <i>New London, Conn.</i> 59 Prospect st. |
| Edward Boltwood, B.A. }<br>Yale University 1892 }             | <i>Pittsfield, Mass.</i> 217 York st.    |
| Charles Sterling Bonsall, B.A. }<br>University of Pa. 1889 }  | <i>Chicago, Ill.</i> 1010 Chapel st.     |
| William Bradford Bosley, B.A. }<br>Yale University 1892 }     | <i>Livonia, N. Y.</i> 60 W. D.           |
| Herbert Ovid Bowers, B.A. }<br>Yale University 1892 }         | <i>Manchester, Conn.</i> 120 Dwight st.  |
| George Preston Breckenridge                                   | <i>St. Louis, Mo.</i> 67 Howe st.        |
| Edward Linus Brennan  | <i>New Haven, Ct.</i> 179 Franklin st.   |
| Robert Barmby Buckham, B.A. }<br>University of Vermont 1889 } | <i>Burlington, Vt.</i> 404 Crown st.     |
| William Rowland Burbank                                       | <i>Pittsfield, Mass.</i> 107 Temple st.  |

|   |   |
|---|---|
| William Warren Buttle, Jr.                                    | <i>Brooklyn, N. Y.</i> 1157 Chapel st.  |
| Marvin Dugro Buttles, B.A. }<br>Columbia College 1890         | <i>New York City</i> 159 Elm st.        |
| Timothy Francis Callahan                                      | <i>New Haven, Conn.</i> 171 Chapel st.  |
| George Winton Carey   | <i>Stratford, Conn.</i> Stratford       |
| Howell Cheney, B.A. }<br>Yale University 1892                 | <i>South Manchester, Conn.</i> 101 W.D. |
| Walter Forward Clark  | <i>West Suffield, Conn.</i> 78 Lake pl. |
| Martin Conlon   | <i>New Haven, Conn.</i> 116 Nicoll st.  |
| Thomas Drake Coulter  | <i>New York City</i> 312 Elm st.        |
| Howard Ambrose Couse, B.A. }<br>Allegheny College 1891        | <i>Tidioute, Pa.</i> 64 Lake pl.        |
| Jesse Wallen Crain  | <i>Flag Pond, Tenn.</i> West Haven      |
| William Thaw Denniston  | <i>Pittsburgh, Pa.</i> 679 Chapel st.   |
| Jerome Francis Donovan  | <i>New Haven, Conn.</i> 123 Day st.     |
| Wheaton Fayette Doud  | <i>Litchfield, Conn.</i> 336 George st. |
| Harold Griggs Durant  | <i>New Haven, Conn.</i> Durant Hotel    |
| Thomas Francis Farrell  | <i>Webster, Mass.</i> 106 York sq.      |
| Percy Finlay, B.A. }<br>Yale University 1892                  | <i>Memphis, Tenn.</i> 65 W. D.          |
| James Henry Follis  | <i>San Francisco, Cal.</i> 250 York st. |
| William Frederick Foster                                      | <i>London, England</i> 516 Chapel st.   |
| Georges Fauvel Gouraud  | <i>New York City</i> 1161 Chapel st.    |
| Andrew Barbey Graves  | <i>New York City</i> 227 Crown st.      |
| Harmon Sheldon Graves, B.A. }<br>Trinity College 1892         | <i>Burlington, Vt.</i> 101 Grove st.    |
| Bernard Joseph Grech  | <i>New Haven, Conn.</i> 107 Hill st.    |
| Jacob Humphrey Greene   | <i>Hartford, Conn.</i> 136 Court st.    |
| George Elisha Hall  | <i>New Haven, Conn.</i> 212 Wooster st. |
| Herbert William Hamlin, PH.B. }<br>Yale University 1892       | <i>Chicago, Ill.</i> 20 Whalley av.     |
| William Stockbridge Haskell, B.A. }<br>Yale University 1892   | <i>West Falmouth, Me.</i> 157 York st.  |
| Robert Cairns Hayden  | <i>Lake George, N. Y.</i> 227 Crown st. |
| John William Larkin, B.A. }<br>College of the Holy Cross 1892 | <i>Birmingham, Conn.</i> Birmingham     |
| Josiah Woolf Levy   | <i>New Haven, Conn.</i> 90 Elliott st.  |
| Joseph Francis McPartland                                     | <i>New Haven, Conn.</i> 33 Ward st.     |
| Edward Joseph Maher   | <i>New Haven, Conn.</i> 203 East st.    |
| Loren Pinckney Waldo Marvin, B.A. }<br>Yale University 1892   | <i>Hartford, Conn.</i> 157 York st.     |
| Walter Scott Miller   | <i>Nashville, Tenn.</i> 27 Garden st.   |
| George Redington Montgomery, B.A. }<br>Yale University 1892   | <i>Adana, Turkey</i> 2 Audubon st.      |
| Alfred Alfonzo Moore, Jr.                                     | <i>Oakland, Cal.</i> 1090 Chapel st.    |
| Henry Morgan  | <i>Brockport, N. Y.</i> 312 Elm st.     |

|                                  |                           |                  |
|----------------------------------|---------------------------|------------------|
| Daniel Augustine Murphy          | <i>Danbury, Conn.</i>     | 20 Warren st.    |
| James O'Connor                   | <i>Chester, Conn.</i>     | 274 George st.   |
| Dennis O'Neill, Jr., B.A. }      | <i>Holyoke, Mass.</i>     | 121 Dwight st.   |
| College of the Holy Cross 1892 } | <i>S. Norwalk, Conn.</i>  | S. Norwalk       |
| Munson O'Dowd Pardee             | <i>Brooklyn, N. Y.</i>    | 250 York st.     |
| William Sterling Peters          | <i>Syracuse, N. Y.</i>    | 1090 Chapel st.  |
| George Owen Redington            | <i>New Haven, Conn.</i>   | 550 Whalley av.  |
| Matthew Ambrose Reynolds, B.A. } | <i>New Haven, Conn.</i>   | 336 George st.   |
| Yale University 1892 }           | <i>New Haven, Conn.</i>   | 7 Bradley pl.    |
| George Foster Sanford            | <i>Lehigh, Pa.</i>        | 205 Crown st.    |
| William Randolph Scharton        | <i>Winsted, Conn.</i>     | 63 Grove st.     |
| Ira Emanuel Seidle, B.A. }       | <i>Groton, Mass.</i>      | 23 Lynwood st.   |
| Yale University 1891 }           | <i>Brooklyn, N. Y.</i>    | 62 Lake pl.      |
| Frank Wright Seymour, B.A. }     | <i>Brooklyn, N. Y.</i>    | 316 Crown st.    |
| Yale University 1892 }           | <i>Exeter, N. H.</i>      | 138 Court st.    |
| James Fitch Shattuck             | <i>Central City, Col.</i> | 63 Grove st.     |
| Arnold Watson Sherman            | <i>Birmingham, Conn.</i>  | Birmingham       |
| James Clark Sherwood             | <i>Des Moines, Iowa</i>   | 110 Olive st.    |
| George Howard Street, B.A. }     | <i>New Haven, Conn.</i>   | 171 Chestnut st. |
| Yale University 1891 }           | <i>York, Pa.</i>          | 65 W. D.         |
| Harrison John Teller, B.A. }     | <i>New Haven, Conn.</i>   | 486 Prospect st. |
| Yale University 1892 }           | <i>New London, Conn.</i>  | 65 York sq.      |
| James France Torrance            | <i>St. Louis, Mo.</i>     | 276 Elm st.      |
| Richard Henry Tyner              | <i>Pittsfield, Mass.</i>  | 99 Howe st.      |
| William Wallace Ward             | <i>Brooklyn, N. Y.</i>    | 250 York st.     |
| Charles Weiser, Ph.B. }          | <i>Hartford, Conn.</i>    | 110 Olive st.    |
| Yale University 1892 }           |                           |                  |
| James Everett Wheeler, B.A. }    |                           |                  |
| Yale University 1892 }           |                           |                  |
| Charles Boardman Whittlesey      |                           |                  |
| Fritz William Whyte              |                           |                  |
| Arthur Hubbard Wood              |                           |                  |
| Robins Blackburne Woodward       |                           |                  |
| Robert Wright                    |                           |                  |

JUNIORS 78

## SUMMARY

|                         |     |
|-------------------------|-----|
| GRADUATE STUDENTS,      | 15  |
| SENIOR CLASS, . . . . . | 78  |
| JUNIOR CLASS, . . . . . | 78  |
| TOTAL, . . . . .        | 171 |

# SUMMARY OF STUDENTS

## DEPARTMENT OF PHILOSOPHY AND THE ARTS:

|                                 |   |   |   |          |             |
|---------------------------------|---|---|---|----------|-------------|
| GRADUATE COURSES                | - | - | - | 125      |             |
| YALE COLLEGE                    | - | - | - | 966      |             |
| SHEFFIELD SCIENTIFIC SCHOOL     | - |   |   | 529      |             |
| ART SCHOOL                      | - | - | - | 31       |             |
| MUSICAL DEPARTMENT              | - | - |   | 7        |             |
|                                 |   |   |   | <u>7</u> | 1658        |
| YALE DIVINITY SCHOOL            | - | - | - | -        | 109         |
| YALE MEDICAL SCHOOL             | - | - | - | -        | 76          |
| YALE LAW SCHOOL                 | - | - | - | -        | 171         |
|                                 |   |   |   |          | <u>2014</u> |
| Deduct for names inserted twice | - |   |   | 45       |             |
|                                 |   |   |   |          | <u>1969</u> |
| TOTAL                           | - | - | - | -        |             |

## DEGREES CONFERRED IN 1892

### BACHELORS OF ARTS

|                              |                             |
|------------------------------|-----------------------------|
| Harry Allen Grant Abbe       | Roy Knight Farwell          |
| Bernard Melzar Allen         | Harry Tristram Ferris       |
| Benjamin Latham Armstrong    | Percy Finlay                |
| Clarence Willis Austin       | Wilbur Parkhurst Fish       |
| George Sherwin Clarke Badger | Otis Harrison Fisk          |
| Andrew Jackson Balliet       | Edward Henry Floyd-Jones    |
| Frank Melville Barber        | Hiram Fobes                 |
| Arthur Seth Barnes           | Everett Dwight Francis      |
| Charles Joseph Bartlett      | William Buel Franklin       |
| Hugh Aiken Bayne             | Harrison Barber Freeman     |
| Howard Morton Biscoe         | Charles Hamilton Frost      |
| Frederic Courtney Bishop     | Pierpont Fuller             |
| Edward Clarence Bissell      | Merrill Williams Gallaway   |
| Walter Phelps Bliss          | George Herbert Girty        |
| Edward Boltwood              | Frederick Everett Grant     |
| William Bradford Bosley      | Henry Solon Graves          |
| Herbert Ovid Bowers          | Francis Hayt Griffin        |
| Arthur Stone Brackett        | Ferdinand Albert Häuslein   |
| Fred Clark Gallup Bronson    | Stansbury Tiffany Hager     |
| Oliver Hart Bronson          | Charles Sherman Haight      |
| Preston Brown                | William Cuthbert Hall, Jr.  |
| Stanley Gano Burt            | Henry Saunders Haskell      |
| James Trowbridge Carr        | William Stockbridge Haskell |
| Alfred Bruce Chace           | Donald Rose Hinckley        |
| Howell Cheney                | Henry Barrett Hinckley      |
| Knight Dexter Cheney, Jr.    | Frederick Wallis Hinkle     |
| Paul Ripley Clark            | Charles Revell Holden       |
| Ezekiel Field Clay, Jr.      | Burton Page Hollister       |
| George Lawton Coit           | George Buell Hollister      |
| George Wetmore Colles, Jr.   | Sidney Hosmer               |
| Richard Storrs Colton        | Arthur Carter Hume          |
| Elisha Hilliard Cooper       | Daniel Trumbull Huntington  |
| Benjamin Lewis Crosby, Jr.   | Howard Huntington           |
| James Stevens Darcy          | James William Husted, Jr.   |
| Arthur Louis Day             | William James Hutchins      |
| Clive Hart Day               | James W. D. Ingersoll       |
| Albert Grant Dingley         | William Crane Ivison        |
| Edward Howard Dodd           | Pierre Jay                  |
| Richard Gardner Eaton        | Isaac Hallam Jenney         |
| Percy Coe Eggleston          | Elliot Grant Johnson        |

Frank Arthur Keeler  
 Harry Howell Kennedy  
 Henry Martindale Kidd  
 William Lloyd Kitchel  
 George Gray Knowles  
 James Hall Mason Knox, Jr.  
 Sidney Locock Lasell  
 Philip Reynolds Leavenworth  
 Arthur Franklin Lewis  
 James Locke  
 John Frederick Lorance  
 Daniel Lord, 3d  
 Arthur Lovell  
 Harry Winters Luce  
 Harry Stoddard Lyman  
 Cloyd North McAllister  
 Thomas Lee McClung  
 Henry Buehler McCormick  
 Daniel Edgar Manson  
 Arthur Merwin Marsh  
 Elliott Marshall  
 Levi Winfield Marshall  
 Loren Pinckney Waldo Marvin  
 Edward Hopkins Mason  
 William Messick  
 Abraham Meyer  
 Ernest Boyd Millard  
 George Redington Montgomery  
 Francis Miner Moody  
 James Albert Moore  
 Stanford Newel Morison  
 Charles Dennis Morris  
 Robert Wallace Morris  
 Edward Buffett Mowbray  
 Thornwell Mullally  
 Marshall Paul Noyes  
 David Raphael O'Donnell  
 Allen Cromwell Orrick  
 Frank Burton Otis  
 Robert Allen Paddock  
 Alfred Barnes Palmer (*post obit.*)  
 Frank Ilsley Paradise  
 Lewis Rathbone Parker  
 Edward Walker Pease

William Grymes Pettus  
 John Inglee Phinney  
 Charles Peabody Pierce  
 Horace Tracy Pitkin  
 Ralph Carr Powell  
 Frank Julian Price  
 Henry Riggs Rathbone  
 Matthew Ambrose Reynolds  
 Paul Stanley Richards  
 Erman Jesse Ridgway  
 Isaac Woodbridge Riley  
 William Goodsell Rockefeller  
 George Emery Russell  
 William Nelson Runyon  
 Edward Stevens Sanborn  
 Otto Adolph Schreiber  
 Charles Augustus Schumaker  
 Charles Brown Sears  
 Frank Wright Seymour  
 Arthur Wynne Shaw  
 Augustus Farnham Shaw  
 Forrest Shepherd  
 Emanuel Frank Snyder  
 Elmer Haynes Spaulding  
 Alfred Lawrence Spencer  
 Edwin Obed Stanard, Jr.  
 Walter Ralph Steiner  
 Eben Foster Stevens  
 Herbert Anson Stocking  
 Alfred Harris Swayne  
 Harlan Henry Taintor  
 Harrison John Teller  
 George Davis Terry  
 Alfred Clark Thompson  
 John Knox Tibbits  
 Howard Rockwell Townsend  
 Frederick Deming Tucker  
 James Archibald Turnbull  
 Ralph Richard Upton  
 Newton Foster Vail, B.A. }  
    Hobart College 1890 }  
 Warren Gookin Waterman  
 Henry Goodwin Webster  
 Stuart Webster

Irving Comstock West  
 James Everett Wheeler  
 Junius Wheeler  
 Albert Lavine Whittaker  
 Norman Clark Whittemore  
 Abram Case Williams  
 Clarence Cicero Wilson  
 Frank Tobey Winslow

Charles Lawson Wooding  
 Frederick Sanford Woodruff  
 John Sitcher Woodruff  
 Harry Woollen  
 William Burnet Wright, Jr.  
 Herbert James Wyckoff  
 William Denison Young

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### MASTERS OF ARTS

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Benjamin Wisner Bacon, B.A. }     | Charles Thompson Mathews, B.A. }   |
| Yale University 1881 }            | Yale University 1886 }             |
| James Henry Breasted, B.A. }      | Leonard Woods Parish, B.A. }       |
| North Western College 1890 }      | Yale University 1872 }             |
| Wm. C. DeForest Dickinson, B.A. } | Edmund Daniel Scott, B.A. }        |
| Yale University 1889 }            | Yale University 1889 }             |
| James Crawford Lester, B.A. }     | Charles Hitchcock Sherrill, B.A. } |
| Amherst College 1890 }            | Yale University 1889 }             |

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### BACHELORS OF PHILOSOPHY

|   |   |
|---|---|
| Francis Mulliken Adams                      | Wesley Roswell Coe                        |
| Wallace McKinney Alexander                  | Harry Cone Collins                        |
| Herbert Burr Atha                           | Egbert Wheeler Cornwall                   |
| Fred Murray Ayres                           | Wilbur Fisk Day, Jr.                      |
| Walter Stanton Bailey                       | Thomas Denny, Jr.                         |
| William Atwater Baldwin                     | Duncan Stuart Ellsworth                   |
| Francis Edward Barbour                      | Samuel Fray                               |
| Frank Harrison Tefft Barbour                | Claude Gignoux                            |
| Joseph Bulkley Barnes                       | Simon Philip Goodhart                     |
| William Nicholas Beach                      | George Arthur Gordon                      |
| Charles Edmund Beeson                       | J. Avery Gould                            |
| Bertram Borden Boltwood                     | Joseph Sutton Green                       |
| Sherman Hoyt Bouton                         | Harry Priest Greene ( <i>post obit.</i> ) |
| Waldo Clayton Briggs                        | Thomas Strong Griffing                    |
| William H. P. Bronson ( <i>post obit.</i> ) | David Cullen Griggs                       |
| Otis Gridley Bunnell                        | Herbert William Hamlin                    |
| Lucius Lucine Button                        | John Henry Hammond, Jr.                   |
| Walter Lord Caldwell                        | Josiah Harmar                             |
| George Flavius Campbell                     | Norman Dwight Harris                      |
| Willard Rowe Carrol                         | Samuel Atkinson Harsh                     |
| Walter Ellsworth Coe                        | Thomas Simmons Homans                     |



Henry Dwight Hunt  
 Gustave Erwin Huttelmaier  
 Harry Helmer Jackson  
 Theodore Caldwell Janeway  
 Edward Wilson Johnstone  
 Walter Woodruff Keith  
 James Hugh Kimball  
 James Moffatt Knapp  
 Charles Thomas Kountze  
 Henry Edgar Lane  
 Walter William Law, Jr.  
 Joseph Lesinsky  
 Edward McVickar  
 James Stephen Maher  
 Denis James Maloney  
 Frank Edwin Mandel  
 Richard Fisher Manning  
 Robert Valentine Massey  
 Gardner Meeker  
 Charles Wilson Merrels  
 Reuben Miller, Jr.  
 Fred Mold  
 Theophilus Nelson  
 Edward Sherman Nettleton  
 Charles Henry Nichols  
 Richard Francis Pearce  
 Montague Elias Perkins  
 Miles Albion Pond  
 John Keeler Punderford  
 Harry Ralston Quinn

Charles Cornwell Ramsdell  
 George Wolf Reily, Jr.  
 William Reynolds Ricketts  
 Albert B. Rogowski  
 William Parker Sargent  
 Charles Howard Saunders  
 Albert Leslie Sessions  
 Arthur Jarvis Slade  
 Ralph William Sprague  
 Alix Welch Stanley  
 Paul Sterling  
 Harry Taylor Stoddart  
 James Graham Stokes  
 Worthington Smith Telford  
 Isaac Biddle Thomas  
 Charles Stewart Towle  
 Percy Talbot Walden  
 Lauren Kellogg Warnick  
 Isaac Weil  
 Charles Weiser  
 Alfred Pelton Wheeler  
 Edward Lancaster Whittemore  
 Charles Mallory Williams  
 Philip Keeney Williams  
 John Baker Winstandley  
 Walter Abbott Wood, Jr.  
 William Bassett Woodward  
 Edward Vanuxem Wurts  
 Vincent Jay Youmans  
 Clarence Clark Zantzinger

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#### CIVIL ENGINEER

John Clayton Tracy, PH.B. Yale University 1890

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#### MECHANICAL ENGINEER

Edwin Hoyt Lockwood, PH.B. Yale University 1888

## DOCTORS OF PHILOSOPHY

|                                |                                      |
|--------------------------------|--------------------------------------|
| George L. Amerman, B.A. }      | Morihiro Ichihara, }                 |
| Yale University 1890 }         | Kyoto (Japan) Theol. Seminary 1879 } |
| Gerald Hamilton Beard, B.A. }  | Frank Sherman Meara, B.A. }          |
| Yale University 1887, }        | Yale University 1890 }               |
| B.D. Yale University 1890 }    | Kumato Morita, }                     |
| Lars Herman Beck, B.A. }       | Kyoto (Japan) Theol. Seminary 1879 } |
| Augustana College 1885 }       | Francis Wayland Shepardson, B.A. }   |
| Philip Embury Browning, B.A. } | Brown University 1883, }             |
| Yale University 1889 }         | M.A. Denison University 1886 }       |
| John Havemeyer Daniels, B.A. } | John Whitmore, B.A. }                |
| Yale University 1889 }         | Yale University 1886 }               |
| Charles Davidson, B.A. }       | Amos Parker Wilder, B.A. }           |
| Iowa College 1875 }            | Yale University 1884 }               |
| Washington Irving Hunt, B.A. } |                                      |
| Yale University 1886 }         |                                      |

## BACHELORS OF DIVINITY

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Edward Scribner Ames, B.A. }    | William Albert Korn, B.A. }         |
| Drake University 1889 }         | Ursinus College 1887 }              |
| Arthur John Arn, B.A. }         | William Gilbert Lathrop, B.A. }     |
| Yale University 1887 }          | Brown University 1889 }             |
| Joseph Henry Artopé, B.A. }     | Edward Olaus Loe, B.A. }            |
| Wilberforce University 1889 }   | Yale University 1889 }              |
| Jesse Bailey, M.A. }            | Claire Franklin Luther, B.A. }      |
| Bates College 1890 }            | Amherst College 1889 }              |
| Clifford Webster Barnes, B.A. } | William Henry Manss, B.A. }         |
| Yale University 1889 }          | Wittenberg College 1887 }           |
| John Bigham, M.A. }             | Duncan Salisbury Merwin, B.A. }     |
| Amherst College 1890 }          | Yale University 1888 }              |
| Thomas Cutler DesBarres, B.A. } | Harry Roberts Miles, B.A. }         |
| University of Toronto 1889 }    | Harvard University 1888 }           |
| Julius Wilbur Eggleston, B.A. } | Charles Duncklee Milliken, B.A. }   |
| Wesleyan University 1889 }      | Dartmouth College 1887 }            |
| Frank Lewis Garfield, B.A. }    | Frank Alvin Morgan, B.A. and B.D. } |
| Amherst College 1888 }          | Drake University 1888 }             |
| Frank Oscar Hellier }           | William Sacheus Morgan }            |
| James Hunter }                  | Herbert Arthur Mosser, B.A. }       |
| Frank Lovejoy Johnston, B.A. }  | Olivet College 1889 }               |
| Wheaton College 1888 }          | Roscoe Nelson, B.A. }               |
| Sumantrao Vishnu Karmarkar }    | Bates College 1887 }                |
| Kevoork Harutune Kazanjian }    | Richard Owen, B.A. }                |
| James Harvey Keeling, B.A. }    | Marietta College 1889 }             |
| Rutgers College 1889 }          | Charles Eugene Ozanne, B.A. }       |
|                                 | Adelbert College 1889 }             |

|                                 |                                |
|---------------------------------|--------------------------------|
| Dryden William Phelps, M.A. }   | Edward Parsons Seymour, B.A. } |
| Brown University 1880 }         | Amherst College 1884 }         |
| Morgan Everett Powelson, B.A. } | David Lewis Thomas, B.A. }     |
| Lafayette College 1889 }        | Marietta College 1889 }        |
| Jefferson Davis Ritchey, M.A. } | Irving Francis Wood, M.A. }    |
| Drury College 1891 }            | Hamilton College 1888 }        |
| Benjamin Berry Seelye, B.A. }   | Samuel H. Woodrow, B.A. }      |
| Yale University 1876 }          | Bates College 1881 }           |

## DOCTORS OF MEDICINE

|  |  |
|--|--|
| Leonard Woolsey Bacon, Jr.               | Daniel Albion Jones, B.A. }              |
| George Newton Bell                       | Yale University 1884 }                   |
| Richard Francis Brown                    | William Matthew Kenna, PH B. }           |
| Elias Wyman Davis, B.A. }                | Yale University 1890 }                   |
| Yale University 1880 }                   | William Alfred Korn, B.A. }              |
| Alexander William Evans, PH.B. }         | Yale University 1890 }                   |
| Yale University 1890, <i>cum laude</i> } | George Newton Lawson, B.A. }             |
| Timothy John Foley                       | Yale University 1890 }                   |
| Austin Brainerd Fuller, B.A. }           | Ralph Augustine McDonnell, B.A. }        |
| Yale University 1866 }                   | Yale University 1890, <i>cum laude</i> } |
| Frederick George Graves                  | Thomas Edward McEvoy, B.A. }             |
| Joseph Barnard Hall                      | Yale University 1890 }                   |
| John Augustus Hartwell, PH.B. }          | Edward Lyman Munson, B.A. }              |
| Yale University 1889, <i>cum laude</i> } | Yale University 1890 }                   |
| Moses Jacob Husinsky                     | Homer Tomlinson Partree, B.A. }          |
| George Henry Jackson, B.D. }             | Yale University 1887 }                   |
| Yale University 1891 }                   | Alexander Rovinsky                       |
|  | Hyman Solomon Shlevin                    |

## BACHELORS OF LAW

|   |  |
|---|--|
| William Pope Aiken, B.A. }                | John Mansfield Douglas, Jr.            |
| Yale Univ. 1889, <i>magna cum laude</i> } | Joseph Edley England, B.A. }           |
| Frank Stymets Bishop, B.A. }              | Coll. of the Christian Brothers, Mo. } |
| Yale University 1890 }                    | Morgan John Flaherty                   |
| Herbert Morton Bishop, B.A. }             | Charles Cleveland Ford                 |
| Yale University 1890 }                    | Lewis Scofield Haslam, B.A. }          |
| Charles Wright Boltwood, B.A. }           | Yale University 1890 }                 |
| Yale University 1890 }                    | John James Healey                      |
| Francis Patrick Brett                     | William Thomas Henry                   |
| John Zachariah Brickley                   | Herbert Augustus Hill, B.A. }          |
| John F. Carpenter, <i>magna cum laude</i> | Wesleyan University 1889 }             |
| John Francis Cuff                         | John Francis Holohan                   |

|  |   |
|--|---|
| Henry Arthur Huntington                      | William Sames Neary, B.A. }               |
| Jesse William Johnson                        | College of the Holy Cross 1890 }          |
| Richard Harvey Johnson                       | Robert Treat Platt, B.A. }                |
| Howard Clifford Joyce                        | Yale Univ. 1889, <i>magna cum laude</i> } |
| Henry Thomas King                            | John Henry Roemer, B.A. }                 |
| Franklin Leonard, Jr.                        | Marietta College 1887, <i>cum laude</i> } |
| Harry Wills McIntosh, PH.B. }                | Linford Fenn Root                         |
| Western University of Pa. 1890 }             | William Henry Smith, B.A. }               |
| George Robert McKenna                        | Yale University 1890 }                    |
| Augustine Frances Maher, B.A. }              | James Robert Spurgeon                     |
| Manhattan College 1890 }                     | George Peabody Steele                     |
| William Henry Marlatt, B.A. }                | Francis Willcox Treadway, B.S. }          |
| Nat'l. Normal Univ. 1889, <i>cum laude</i> } | Worcester Polytechnic Inst. 1890 }        |
| James Bernard Martin                         | Lebbeus Redman Wilfley, M.A. }            |
| Sanford Bouck Martin, B. A. }                | Central College, Mo. 1891 }               |
| Pennsylvania College 1890 }                  | Rollin Chappell Wooster                   |
| Solomon Christy Mead, B.A. }                 | Alfred Northam Wright                     |
| Yale University 1890 }                       | William Morris Wylie                      |
| Louis Jackson Morgan, PH.B. }                | Samuel Albert York, Jr., B.A. }           |
| Butler University 1888 }                     | Yale University 1890 }                    |

## MASTERS OF LAWS

|  |   |
|--|---|
| George Woodburn Andrew, LL.B. }          | Joseph Richard Morgan, PH.B. }            |
| Yale University 1891 }                   | Butler University 1889 }                  |
| Henry Graham Crocker, LL.B. }            | LL.B. Yale University 1891 }              |
| Yale University 1891, <i>cum laude</i> } | Robert Clark Morris, LL.B. }              |
| Hidei Fukuoka, LL.B. }                   | Yale University 1890 }                    |
| Cumberland Univ. 1891 }                  | Frederick Eli Mygatt, LL.B. }             |
| John Aaron Hooper, LL.B. }               | Yale University 1891 }                    |
| Yale University 1891 }                   | Andrew Wilson, M.A. }                     |
| Sukahide Kabayama, LL.B. }               | Kansas Normal College 1890, M.L. }        |
| Yale University 1891 }                   | Georgetown Univ. 1891, <i>cum laude</i> } |
| George Aaron Kellogg, B.A. }             | Akira Yamamoto, LL.B. }                   |
| Amherst College 1889, }                  | Columbian University 1891 }               |
| LL.B. Yale University 1891 }             |   |

## HONORARY DEGREES:

## DOCTOR OF DIVINITY

Rev. Professor Charles Mellen Tyler, B.A. Yale University 1855

## DOCTORS OF LAWS

|   |   |
|---|---|
| Rev. Cecil F. P. Bancroft, B.A. }<br>Dartmouth College 1860   | Rev. Charles Henry Hall, B.A. }<br>Yale University 1842   |
| Professor Theodore W. Dwight, B.A. }<br>Hamilton College 1840 | Prof. Thomas R. Lounsbury, B.A. }<br>Yale University 1859 |
| Sir Donald Alexander Smith                                    |   |

## DOCTOR IN LETTERS

William Lathrop Kingsley, B.A. Yale University 1843

## MASTERS OF ARTS

|  |   |
|--|---|
| Professor Walter R. Bridgman, B.A. }<br>Yale University 1881 | Frederick Wolcott Jackson }<br>Joseph Jefferson |
| Henry Martyn Denniston                                       | Walter William Law                              |
| Tryon Holkar Edwards   | President Webster Merrifield, B.A. }            |
| Orlando Metcalf Harper                                       | Yale University 1877                            |
| Hon. Ebenezer J. Hill  | Rev. James Stoddard, B.A. }                     |
| Rev. Edward Sackett Hume, B.A. }                             | Trinity College 1871                            |
| Yale University 1870   | Hon. John Payne Studley, LL.B. }                |
| Laurence Hutton  | Yale University 1875                            |

## BACHELORS OF ARTS

|                   |                      |
|-------------------|----------------------|
| James Perry Platt | James Riedell Tucker |
|                   | Dudley Winston       |

## BACHELORS OF PHILOSOPHY

|                          |                       |
|--------------------------|-----------------------|
| Robert Livingston Crooke | James Allen Macdonald |
|--------------------------|-----------------------|

## HONORS IN THE ACADEMICAL DEPARTMENT

## HONORS IN ALL STUDIES, CLASS OF 1892

## ORATIONS

JAMES W. D. INGERSOLL

WILLIAM JAMES HUTCHINS

WILLIAM LLOYD KITCHEL  
WILLIAM BRADFORD BOSLEY  
ELLIOTT MARSHALL

PERCY FINLAY  
BERNARD MELZAR ALLEN  
CLIVE HART DAY

Charles Joseph Bartlett  
Fred Clark Gallup Bronson  
George Wetmore Colles, Jr.  
Hiram Fobes  
George Herbert Girty  
Henry Barrett Hinckley  
James Hall Mason Knox, Jr.  
Matthew Ambrose Reynolds

Isaac Woodbridge Riley  
Charles Augustus Schumaker  
Charles Brown Sears  
Frank Wright Seymour  
Arthur Wynne Shaw  
James Everett Wheeler  
Albert Lavine Whittaker

Harry Allen Grant Abbe  
 Arthur Stone Brackett  
 James Stevens Darcy  
 Otis Harrison Fisk  
 Arthur Merwin Marsh  
 Abraham Meyer  
 Ernest Boyd Millard  
 George Redington Montgomery  
 James Albert Moore

Marshall Paul Noyes  
 Frank Burton Otis  
 John Inglee Phinney  
 Charles Peabody Pierce  
 Horace Tracy Pitkin  
 William Goodsell Rockefeller  
 Augustus Farnham Shaw  
 Walter Ralph Steiner

## DISSERTATIONS

Arthur Seth Barnes  
 Edward Boltwood  
 Richard Storrs Colton  
 Percy Coe Eggleston  
 Ferdinand Albert Häuslein  
 Harry Winters Luce

Edward Stevens Sanborn  
 Herbert Anson Stocking  
 Warren Gookin Waterman  
 Junius Wheeler  
 Clarence Cicero Wilson  
 Charles Lawson Wooding

## DISPUTES

Clarence Willis Austin  
 Frederic Courtney Bishop  
 Herbert Ovid Bowers  
 Howell Cheney  
 Knight Dexter Cheney, Jr.  
 Arthur Louis Day  
 Everett Dwight Francis  
 Merrill Williams Gallaway  
 Charles Sherman Haight

William Stockbridge Haskell  
 Frederick Wallis Hinkle  
 Frank Arthur Keller  
 Harry Howell Kennedy  
 Henry Buehler McCormick  
 Thornwell Mullally  
 William Grymes Pettus  
 Emanuel Frank Snyderacker  
 William Burnet Wright, Jr.

Benjamin Latham Armstrong  
 Howard Morton Biscoe  
 Edward Clarence Bissell  
 Stanley Gano Burt  
 Albert Grant Dingley  
 Edward Howard Dodd  
 Wilbur Parkhurst Fish  
 Henry Saunders Haskell  
 Charles Revell Holden  
 George Buell Hollister  
 Sidney Locock Lasell  
 Arthur Franklin Lewis

Arthur Lovell  
 William Messick  
 Francis Miner Moody  
 David Raphael O'Donnell  
 Lewis Rathbone Parker  
 Paul Stanley Richards  
 Erman Jesse Ridgway  
 John Knox Tibbitts  
 Ralph Richard Upton  
 Henry Goodwin Webster  
 Frank Tobey Winslow  
 John Sitcher Woodruff

## COLLOQUIES

Walter Phelps Bliss  
 Henry Solon Graves  
 Burton Page Hollister  
 Daniel Trumbull Huntington  
 Elliot Grant Johnson  
 John Frederick Lorange  
 Charles Dennis Morris

Robert Wallace Morris  
 Edward Buffett Mowbray  
 Allen Cromwell Orrick  
 Frank Julian Price  
 Harlan Henry Taintor  
 Frederick Deming Tucker  
 Abram Case Williams

George Sherwin Clarke Badger  
 Oliver Hart Bronson  
 Alfred Bruce Chace  
 Paul Ripley Clark  
 George Lawton Coit  
 Richard Gardner Eaton

William Buel Franklin  
 Pierre Jay  
 Cloyd North McAllister  
 Edward Walker Pease  
 Henry Riggs Rathbone  
 Norman Clark Whittemore

## HONORS IN SPECIAL STUDIES

## TWO-YEAR HONORS

*In Political Science, History, Law :*

Bernard Melzar Allen  
 William Bradford Bosley  
 Howell Cheney  
 Richard Storrs Colton  
 James Stevens Darcy  
 Percy Coe Eggleston  
 William James Hutchins  
 Frank Wright Seymour

*In Ancient Languages :*

James W. D. Ingersoll  
 Albert Lavine Whittaker

*In Modern Languages :*

Percy Finlay  
 George Redington Montgomery

*In Natural and Physical Science :*

Charles Joseph Bartlett  
 Arthur Stone Brackett  
 George Wetmore Colles, Jr.  
 George Redington Montgomery  
 James Albert Moore  
 John Inglee Phinney

*In Mathematics :*

George Wetmore Colles, Jr.

## ONE-YEAR HONORS

*In Philosophy :*

Francis Miner Moody

*In Modern Languages :*

Charles Augustus Schumaker

*In English :*

Charles Augustus Schumaker

*In Political Science, History, Law :*

Albert Grant Dingley  
 Percy Finlay  
 James Hall Mason Knox, Jr.  
 Harry Winters Luce  
 Charles Peabody Pierce

*In Natural and Physical Science :*

Augustus Farnham Shaw

*In Mathematics :*

Clarence Cicero Wilson

## JUNIOR APPOINTMENTS

## YALE COLLEGE, CLASS OF 1893

## PHILOSOPHICAL ORATIONS

WILLIAM REYNOLDS BEGG  
 THOMAS IVES CHATFIELD  
 WINTHROP EDWARDS DWIGHT  
 CHARLES BROWN EDDY  
 CHARLES JARVIS FAY  
 JAMES EDWARD GRAFTON

LOGAN HAY  
 WENDELL MELVILLE STRONG  
 HARRY SELDEN VAILE  
 ISIDORE WACHSMAN  
 JOHN DORRANCE WARNOCK  
 ARTHUR LESLIE WHEELER

## ORATIONS

Howard Sidney Bowns  
 Frank William Hastings, Jr.  
 Theodore Woolsey Heermance  
 William Judson Lamson

Irving Phillips Lyon  
 Alfred Kindred Merritt  
 Alton William Peirce  
 Lemuel Aiken Welles

Franklin Jones Abbe  
 Christopher Lester Avery, Jr.  
 Henry Selden Bacon  
 Henry Burr Barnes, Jr.  
 William Bradford Boardman  
 Charles Wilder Bosworth  
 George Mason Creevey  
 Charles Hull Ewing  
 Archer Linwood Faxon

John Howe Field  
 Edson Fessenden Gallaudet  
 Charles David Kyle  
 William Allan Osborn  
 Louis Barcroft Runk  
 Webster Wheelock  
 Albert Beebe White  
 Alfred Charles Woolner  
 Wilbur Seaman Wright

## DISSERTATIONS

Harry Llewellyn Bixby  
 William Edwin Breckenridge  
 Thomas Hamilton Breeze  
 Lawrence Edward Brown  
 Cornelius Sanford Bull  
 Otho Granford Cartwright  
 John Smith Cravens  
 Frank Edward Donnelly  
 William Henry Hackett

William McKimmie Higgins  
 George Edward Mills  
 Alfred Goldstein Nadler  
 Harry Campbell Quintard  
 George Howard Rice  
 Derby Rogers  
 Albert Judson Shaw  
 Samuel Reid Spencer

## DISPUTES

James Addison Babbitt  
 Ellery Alphonso Bates  
 Howbert Billman  
 Edward Harold Bronson  
 Wendell Greene Brownson  
 Charles Walker Clark  
 James Charles Fox  
 Giles Frederic Goodenough  
 Arthur Lawrence Greer  
 John LeRoy Hurlbert  
 Riverda Harding Jordan  
 Frederick Merwin Lloyd

William James McKenna  
 Arthur James Martin  
 Walter Rumsey Marvin  
 William Henry Murphy  
 Emerson Root Newell  
 William Lewis Newton  
 Herbert Irving Sackett  
 Robbins Battell Stoeckel  
 John Booth Thomas  
 Dexter Edgar Tilley  
 Richard Chas. Wells Wadsworth



John Whitney Avery  
George Justus Briggs  
Frank Howard Button  
Nehemiah Candee  
Alvah Stone Chisholm  
William Walton Eccles  
Henry Horlbeck Ficken

Richard Thayer Holbrook  
George Greene Martin  
Francis Parsons  
John Trumbull Robinson  
William Clement Scott  
Samuel Scoville, Jr.  
Edward Holman Tracy

## COLLOQUIES

Henry Colwell Beadleston  
Ralph Birdsall  
Howard Dorrance Day  
Charles Ralph Hickox, Jr.  
Ben Hodge  
Shubael Cady Hutchins  
Charles Macauley Pope

Hubert Merrill Sedgwick  
George Brown Spalding  
Charles Gallaudet Trumbull  
Ernest Hubbard Wells  
Carl Westerfeld  
Walter Dwight Wilcox

John Weston Allen  
Lafon Allen  
George Palmer Beebe  
Theodore Louis Bristol  
Frank James Brown  
James Barclay Cooke  
Elliot Stone Curtis  
Francis Oswald Dorsey  
John Percival Edmison  
Irving Bruce Ferguson  
Frank Edwin Gatchel

Robert Kellogg Howe  
Sherwood Bissell Ives  
Charles Davies Jones  
Walter Parmelee Judson  
Irwin Boyle Laughlin  
Burton Emerson Leavitt  
Arthur Power Lord  
Franklin Arthur Moore  
Carlyle Edgar Sutphen, Jr.  
Wm. Stoutenborough Terriberry  
Herbert Gorden Thomson

UNDERGRADUATE SCHOLARS OF THE HOUSE, YALE  
COLLEGE, FOR 1892-93:

WOOLSEY Scholar, Class of 1893—WINTHROP E. DWIGHT.

THOMAS GLASBY WATERMAN Scholars, Class of 1893—WILLIAM R. BEGG

ALFRED K. MERRITT, ARTHUR L. WHEELER.

SCOTT HURTT Scholar, Class of 1893—ALTON W. PEIRCE.

WOOLSEY Scholar, Class of 1894—HENRY S. DAWSON, JR.

SCOTT HURTT Scholar, Class of 1894—WILLIAM E. THOMS.

WOOLSEY Scholar, Class of 1895—GEORGE D. KELLOGG.

HURLBUT Scholar, Class of 1895—GEORGE JACOBUS.

THIRD FRESHMAN Scholar, Class of 1895—CHARLES S. THURSTON.

ALFRED BARNES PALMER Scholar, Class of 1896—JOHN M. GAINES.

UNIVERSITY PRIZES, AWARDED IN 1892:

COBDEN CLUB Medal, Class of 1892—Norman D. Harris, of the Sheffield  
Scientific School.

PRIZES AWARDED IN THE ACADEMICAL DEPARTMENT'  
1891-92 :

DEFOREST Prize Medal, Class of 1892—William J. Hutchins.

TOWNSEND Premiums, Class of 1892—Hugh A. Bayne, James S. Darcy, William L. Kitchel, John T. Lorance, Thornwell Mullally.

DEFOREST MATHEMATICAL PRIZES—Class of 1892, 1st Prize, George W. Colles. Class of 1893, 2d Prize, John B. Thomas. Class of 1894, 2d Prizes, Howard A. Lamprey, William E. Thoms ; 3d Prizes, Robert H. Nelson, James D. Williams. Class of 1895, 1st Prize, William E. Parsons ; 2d Prizes, Walter H. Allen, Ernest A. Limburger, Herbert R. Limburger ; 3d Prizes, Clement G. Clarke, Norton A. Kent, Charles S. Thurston. Special prize (\$60), for excellence in the Woolsey Scholarship Examination, George Jacobus.

LUCIUS F. ROBINSON Latin Prizes, for Classes of 1892 and 1893—1st Prize, Bernard M. Allen, of '92 ; 2d Prize, James E. Grafton, of '93 ; 3d Prize, Albert L. Whittaker, of '92. For Class of 1894—1st Prize, Robert H. Nichols ; 2d Prize, William E. Thoms ; 3d Prize, George F. VanSlyck.

SCOTT Prize in German, Class of 1892—Charles A. Schumaker.

SCOTT Prize in French, Class of 1893—George E. Mills.

WINTHROP Prizes, Class of 1893—1st Prize, Arthur L. Wheeler ; 2d Prize, Theodore Woolsey Heermance.

HENRY JAMES TENEVCK Prizes (for the Junior exhibition), Class of 1893—1st Prize, John T. Robinson 2d Prizes, John W. Allen, Frank E. Donnelly, Winthrop E. Dwight, John H. Field, Alfred K. Merritt, Francis Parsons, Lemuel A. Welles.

C. WYLLYS BETTS Prize, for English Composition, Class of 1894—Robert H. Nichols.

COLLEGE Prizes in English Composition, Class of 1894—1st Prizes, Julian I. Chamberlain, Warwick J. Price, Willard G. VanName ; 2d Prizes, Louis P. Gillespie, Herbert H. Kellogg, Edward B. Reed ; 3d Prizes, Frederick H. Lynch, Edward F. Raymond, Charles J. Sniffen.

ELOCUTION Prizes, Class of 1894—In Reading, Origen S. Seymour, Jr. ; in Speaking, Frank M. Haradon.

BERKELEY Premiums, Class of 1895—1st Grade, Julian C. Bingham, George Jacobus, George D. Kellogg, Tracy Peck, Jr., Alburn E. Skinner, Charles S. Thurston ; 2d Grade, John J. Dunn, Shirley T. High, Louis H. Holden, Edward C. Jones, Herbert R. Limburger, William E. Parsons, Selden W. Tyler.

HONORABLE MENTION, English Composition, Class of 1895—First Half of the Class, Henry A. Baker, Willoughby P. Beam, Clement G.

Clarke, Lindsay Denison, Everett W. Hobart. Second Half, John G. Mitchell, Jr., Charles G. Morris, John B. Nash, James H. Perrin, Emerson G. Taylor.

PRIZES AWARDED IN THE SHEFFIELD SCIENTIFIC  
SCHOOL, JUNE, 1892 :

Class of 1892 :

- FOR EXCELLENCE IN CIVIL ENGINEERING—The Prize divided between Walter L. Caldwell and Samuel A. Harsh.
- FOR EXCELLENCE IN MECHANICAL ENGINEERING—Gustave E. Huttelmaier, with honorable mention of Sherman H. Bouton, Josiah Harmar, Charles H. Saunders, and Paul Sterling.
- FOR THE BEST ESSAY IN THE COURSE IN MILITARY SCIENCE—the Prize divided between Thomas Denny, Jr., and Josiah Harmar.
- THE BELKNAP PRIZE FOR EXCELLENCE IN GEOLOGY AND ZOOLOGY—divided between Wesley R. Coe and Alfred P. Wheeler, with honorable mention of William N. Beach, Walter E. Coe, and Charles M. Williams.

Class of 1893 :

- FOR EXCELLENCE IN ALL THE MATHEMATICS OF THE JUNIOR YEAR—Alexander J. Campbell, with honorable mention of Frank A. Little and George C. Fouse, and also of Special Student William A. Granville.
- FOR EXCELLENCE IN GERMAN—Roger C. Adams, with honorable mention of Joseph H. Bamberg, Alexander J. Campbell, James L. deVou, and William T. H. Howe.

Class of 1894 :

- FOR EXCELLENCE IN ALL THE STUDIES OF FRESHMAN YEAR—Archibald B. Gwathmey, Jr., with honorable mention of Alexander Johnson, Ralph E. Dusinger, and Harry Worthen.
- FOR EXCELLENCE IN PHYSICS—The Prize divided between Archibald B. Gwathmey, Jr. and Ralph E. Dusinger, with honorable mention of James B. Goodwillie and Harold W. Buck.
- FOR EXCELLENCE IN GERMAN—Alexander Johnson, with honorable mention of Harry Worthen, Frederick W. Kilbourne, and Archibald B. Gwathmey, Jr.
- FOR EXCELLENCE IN CHEMISTRY—Harry Worthen, with honorable mention of Archibald B. Gwathmey, Jr.
- FOR EXCELLENCE IN MATHEMATICS—Frederick W. Kilbourne, with honorable mention of Archibald B. Gwathmey, Jr.
- FOR EXCELLENCE IN MECHANICAL DRAWING—The Prize awarded to Elisha G. Trowbridge, with honorable mention of Henry Brewer, Ralph E. Dusinger, Alois J. J. Pfeiffer, and Samuel P. Williams.

## HONORS IN THE MEDICAL SCHOOL, JUNE, 1892:

DEGREE OF DOCTOR OF MEDICINE *cum laude*—Ralph A. McDonnell,  
B. A. ; Alexander W. Evans, PH. B. ; John A. Hartwell, PH. B.  
CAMPBELL GOLD MEDAL—Ralph A. McDonnell, B. A.  
KEESE PRIZE—Edward L. Munson, B. A.  
OBSTETRICAL PRIZE—Edward L. Munson, B. A.

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## PRIZES AWARDED IN THE LAW SCHOOL, JUNE, 1892:

TOWNSEND PRIZE, Class of 1892—Lebbeus R. Wilfley, M.A.  
Committee of Award: Hon. John A. Peters, LL.D., Bangor, Me.  
Hon. W. W. Crapo, LL.D., New Bedford, Mass.  
Albert Mathews, M.A., New York City.  
JEWELL PRIZE, Class of 1892—William P. Aiken, B.A.  
O. S. SEYMOUR PRIZE, Class of 1892—Henry T. King.  
BETTS PRIZE, Class of 1893—James S. McCall.  
MUNSON PRIZE, Class of 1892—Francis W. Treadway, B.S., with honorable mention of William T. Henry.  
Committee of Award: Hon. Henry G. Newton, New Haven, Conn.  
Francis G. Beach, Esq., New Haven, Conn.  
George P. Ingersoll, Esq., New Haven, Conn.  
WAYLAND PRIZES (Kent Club Debate), Class of 1892—First prize,  
William P. Aiken, B.A. ; Second prize, divided between Frank  
S. Bishop, B.A., and William P. Henry.  
Committee of Award: Rev. T. T. Munger, D.D., New Haven, Conn.  
Hon. S. E. Merwin, New Haven, Conn.  
Col. N. G. Osborn, New Haven, Conn.

## HONORS:

## SENIOR CLASS:

Degree of LL.B., *magna cum laude*

William P. Aiken, B.A., John F. Carpenter, Robert T. Platt, B.A. Degree of LL.B., *cum laude*. William H. Marlatt, B.A., John H. Roemer, B.A.

## JUNIOR CLASS:

James S. McCall, Roger S. Baldwin, B.A., Alfred W. Carter, Lyle A. Dickey, B.A., George H. Huddy, Jr., Wallace S. Moyle, B.A., Leslie W. Newberry, Alfred H. Phelps, B.A., Alexander G. M. Robertson.

## DIRECTORY OF OFFICERS

- |  |  |
|--|--|
| ADAMS, ARTHUR B., Assistant<br>26 Academy st.                      | CAMERON, A. GUYOT, Ass't. Prof.<br>18 Trumbull st.           |
| ADAMS, GEORGE B., Professor<br>(244 L.) 77 Elm st.                 | CAMPBELL, GEORGE F., Assistant<br>49 Dixwell av.             |
| ALEXANDER, ARTHUR C., Assistant<br>(57 N. S. H.) 145 College st.   | CAMPBELL, JAMES, Professor<br>Hartford                       |
| ANDERSON, HENRY S., Assistant<br>(Gymnasium) 99 Howe st.           | CARMALT, WM. H., Professor<br>87 Elm st.                     |
| ANDERSON, WM. G., Instructor<br>(Gymnasium) 99 Howe st.            | CARTER, ALFRED W., Assistant<br>383 George st.               |
| BACON, LEONARD W., Assistant<br>1 Grove st.                        | CHAMBERLAIN, DAN'L H., Lecturer<br>N. Y. City                |
| BAILEY, MARK, Instructor<br>(150 F.) 442 Temple st.                | CHASE, FREDERICK L., Assistant<br>Observatory                |
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| BARNEY, SAMUEL E., Instructor<br>346 Whitney av.                   | CHITTENDEN, RUSSELL H., Prof.<br>(63 B.) 83 Trumbull st.     |
| BARTLETT, CHARLES J., Assistant<br>120 Dwight st.                  | CLAPP, EDWARD B., Asst. Professor<br>135 College st.         |
| BEACH, FREDERIC E., Assistant<br>44 Lyon st.                       | CLARK, JOHN E., Professor<br>(40 N. S. H.) 30 Trumbull st.   |
| BEEBE, WILLIAM, Ass't. Professor<br>83 Wall st.                    | COE, WESLEY R., Assistant<br>131 Howe st.                    |
| BEECHER, CHAS. E., Ass't. Prof.<br>(9 P.) 14 S. H.                 | COLLIER, M. DWIGHT, Lecturer<br>N. Y. City                   |
| BEERS, GEORGE E., Ass't. Prof.<br>(157 Church st.) 31 Lake pl.     | COMSTOCK, WILLIAM J., Instructor<br>43 Trumbull st.          |
| BEERS, HENRY A., Professor<br>(171 F.) West Haven                  | COOK, ALBERT S., Professor<br>139 Elm st.                    |
| BOWDEN, JOSEPH, Jr., Assistant<br>147 Dwight st.                   | CORWIN, ROBERT N., Instructor<br>333 Crown st.               |
| BRASTOW, LEWIS O., Professor<br>(5 E. D.) 128 Wall st.             | CURRY, SAMUEL S., Instructor<br>12 E. D.                     |
| BREWER, WM. H., Professor<br>(4 S. H.) 418 Orange st.              | CURTIS, EDWARD L., Professor<br>(7 E. D.) 61 Trumbull st.    |
| BROWN, ROBERT, Secretary<br>Observatory pl.                        | DAHL, OLAUS, Instructor<br>1010 Chapel st.                   |
| BROWNING, PHILIP E., Assistant<br>(Kent Lab'y.) 70 N. M.           | DANA, EDWARD S., Professor<br>(4 P.) 119 Grove st.           |
| BROWNSON, CARLETON L., Tutor<br>5 S.                               | DANA, JAMES D., Professor<br>(6 P.) 24 Hillhouse av.         |
| BRUSH, GEORGE J., Professor<br>(3 S. H.) 14 Trumbull st.           | DAY, ARTHUR L., Assistant<br>25 High st.                     |
| BUCHNER, EDWARD F., Lecturer<br>54 Park st.                        | DAY, GEORGE E., Dean<br>(3 E. D.) 125 College st.            |
| BUCKLAND, EDWARD G., Instructor<br>(153 Church st.) 419 Temple st. | DEFORREST, LOUIS S., Ass't. Prof.<br>261 Orange st.          |
| BUTLER, GEORGE H., Clerk<br>(5 TR.) 98 Howe st.                    | DEXTER, FRANKLIN B., Secretary<br>(Library) 178 Prospect st. |

- DuBois, A. Jay, Professor  
 (129 Winch.) 258 Bradley st.  
 DUNCAN, GEORGE M., Ass't. Prof.  
 28 York sq.  
 DUTCHER, JUDSON S., Tutor 307 W.  
 DWIGHT, TIMOTHY, President  
 (7 TR.) 126 College st.  
 EATON, DANIEL C., Professor  
 (76 B.) 70 Sachem st.  
 ELKIN, WM. L., Astronomer  
 477 Prospect st.  
 VON ELTZ, LOUIS, Instructor  
 151 Bradley st.  
 EVANS, ALEXANDER W., Assistant  
 12 High st.  
 FAIRBANKS, ARTHUR, Lecturer  
 433 Temple st.  
 FARNAM, HENRY W., Professor  
 43 Hillhouse av.  
 FARNAM, WILLIAM W., Treasurer  
 (5 TR.) 335 Prospect st.  
 FERRIS, HARRY B., Ass't. Prof.  
 317 Crown st.  
 FISHER, GEORGE P., Professor  
 (9 E. D.) 27 Hillhouse av.  
 FISHER, IRVING, Tutor 119 Park st.  
 FLEISCHNER, HENRY, Lecturer  
 928 Grand av.  
 FOOTE, CHARLES J., Demonstrator  
 305 Howard av.  
 FOSTER, JOHN P. C., Instructor  
 109 College st.  
 FOSTER, ROGER, Lecturer N.Y. City  
 FROTHINGHAM, LANGDON, Assistant  
 71 B.  
 GAGER, EDWIN B., Instructor  
 Birmingham  
 GIBBS, J. WILLARD, Professor  
 (Sloane Lab'y.) 121 High st.  
 GOOCH, FRANK A., Professor  
 (Kent Lab'y.) 388 Whitney av.  
 GOODELL, THOMAS D., Ass't. Prof.  
 284 Orange st.  
 GRUENER, GUSTAV F., Ass't. Prof.  
 5 S.  
 GRUENER, HENRY R., Assistant  
 (Library) 39 Whiting st.  
 HADLEY, ARTHUR T., Professor  
 93 Whitney av.  
 HARRIS, SAMUEL, Professor  
 (1 E. D.) 144 College st.  
 HASKELL, WILLABE, Sup't.  
 (Reading Room) 96 Dwight st.  
 HASTINGS, CHARLES S., Professor  
 (120 WINCH.) 191 Bradley st.  
 HATCHER, JOHN B., Assistant  
 9 P.  
 HOOKER, JOHN A., Instructor  
 63 Prospect st.  
 HOPPIN, JAMES M., Professor  
 (12 Art School) 47 Hillhouse av.  
 HORTON, ROBERT F., Lecturer  
 Hampstead, England  
 HOTCHKISS, FRANK E., Sup't.  
 90 High st.  
 HUTCHINS, ANNIE E., Assistant  
 (Library) 29 Home pl.  
 JACOBSON, FRITZ, Lecturer  
 149 St. John st.  
 JOHNSON, SAMUEL W., Professor  
 54 Trumbull st.  
 KENERSON, VERTNER, Steward  
 1018 Chapel st.  
 KITCHEL, CORNELIUS L., Instructor  
 331 Temple st.  
 KNAPP, HOWARD H., Lecturer  
 Bridgeport  
 LADD, GEORGE T., Professor  
 (275 L.) 204 Prospect st.  
 LANG, HENRY R., Instructor  
 331 Temple st.  
 LINDSLEY, CHAS. A., Professor  
 15 Elm st.  
 LINDSLEY, HARRISON W., Instructor  
 (Art School) 15 Elm st.  
 LOCKWOOD, EDWIN H., Instructor  
 (57 N. S. H.) 145 College st.  
 LOOMIS, DWIGHT, Instructor  
 Hartford  
 LOUNSBURY, THOS. R., Professor  
 22 Lincoln st.  
 LOWE, WALTER I., Instructor  
 22 Whalley av.  
 LUQUIENS, JULES, Professor  
 (202 D.) 219 Whalley av.  
 LUSK, GRAHAM, Ass't. Professor  
 28 Elm st.  
 McLAUGHLIN, E. T., Ass't. Prof.  
 (276 L.) 34 Trumbull st.  
 MARSH, OTHNIEL C., Professor  
 (8 P.) 360 Prospect st.  
 MATHER, THOMAS W., Instructor  
 19 Warren pl.  
 MENDEL, LAFAYETTE B., Assistant  
 22 Trumbull st.  
 MIXTER, WM. G., Professor  
 (8 S. H.) 144 Edwards st.  
 MOODY, ROBERT O., Instructor  
 E. Grand av.  
 MOORE, FRANK G., Tutor 170 F.

- MORRIS, EDWARD P., Professor  
112 College st.
- MUNSON, C. LARUE, Lecturer  
Williamsport, Pa.
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135 Elm st.
- NIEMEYER, JOHN H., Professor  
(8 Art School) 251 Lawrence st.
- OERTEL, HANNS, Instructor  
31 York sq.
- OSBORNE, OLIVER T., Ass't. Prof.  
252 York st.
- PALMER, ARTHUR H., Professor  
(117 N.) 42 Mansfield st.
- PARK, CHARLES E., Assistant  
132 Olive st.
- PECK, TRACY, Professor  
124 High st.
- PENFIELD, SAMUEL L., Ass't. Prof.  
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Southport
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430 Temple st.
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- PHELPS, WM. LYON, Instructor  
(70 N. M.) 110 Whitney av.
- PHILLIPS, ANDREW W., Professor  
(155 F.) 184 York st.
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213 D.
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2 Audubon st.
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(111 WINCH.) 137 Edwards st.
- RICHARDS, EUGENE L., Professor  
(86 N. M.) 315 York st.
- ROBERTS, HARLEY F., Tutor  
102 N.
- ROBINSON, JOHN A., Librarian  
(19 Court House) 239 Bradley st.
- ROBINSON, WM. C., Professor  
(157 Church st.) 1 Hillhouse av.
- ROWLAND, WM. E., Clerk  
(5 TR.) 114 Greene st.
- RUNKLE, ERWIN W., Lecturer  
113 Dwight st.
- RUSSELL, TALCOTT H., Instructor  
(157 Church st.) 64 Grove st.
- RUSSELL, THOMAS H., Professor  
137 Elm st.
- ST. JOHN, SAMUEL B., Lecturer  
Hartford
- SANDERS, FRANK K., Ass't. Prof.  
(118 N.) 77 Mansfield st.
- SCHWAB, JOHN C., Instructor 267 L.
- SCRIPTURE, EDWARD W., Instructor  
(109 Elm st.) 25 Vernon st.
- SEAYER, JAY W., Instructor  
(GYMNASIUM) 233 York st.
- SETCHELL, WM. A., Instructor  
2 Hillhouse av.
- SEYMOUR, MORRIS W., Lecturer  
Bridgeport
- SEYMOUR, THOMAS D., Professor  
(121 N.) 34 Hillhouse av.
- SHARP, GEORGE M., Lecturer  
Baltimore, Md.
- SHIPMAN, NATHANIEL, Lecturer  
Hartford
- SIMONDS, WM. E., Lecturer  
Washington, D. C.
- SMITH, CHARLES H., Professor  
(213 L.) 331 Temple st.
- SMITH, HERBERT A., Instructor  
101 W. D.
- SMITH, HERBERT E., Professor  
(1 Med. School) 430 George st.
- SMITH, J. SUMNER, Librarian  
(Library) 257 St. Ronan st.
- SMITH, PERCY F., Instructor  
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